CONTENTS OF SUPPLEMENT.

PERSONAL 89
Obituary 89
ENGINEERING SOCIETIES 89
Coming Technical Meetings 89
NEW PUBLICATIONS 90
Trade Publications 90
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 90
Railways 90
Street and Electric Railways 91
Electric Light and Power 91
Bridges 92
Buildings 92
Water-Works 93
Irrigation 94
Sewerage 94
Garbage Disposal and Street Cleaning 94
Streets and Roads 94
Manufacturing Plants 94
Gas Plants 95
Miscellaneous Contracts 95
Contract Prices 95
INDUSTRIAL NOTES 96

PERSONAL.

Mr. Henry C. Becker has been appointed President of the Board of Water Commissioners of Watervliet, N. Y.

Dr. George W. Hill has been appointed Lecturer in Celestial Mechanics in Columbia University, New York city.

Prof. J. M. Page has been appointed Associate Professor of Mathematics in the University of Virginia, Charlottesville, Va.

Mr. Ernest Rutherford has been appointed Professor of Physics in McGill University, Montreal, Que., to succeed Prof. John Cox.

Mr. John Lowber Welsh, President of the Union Traction Co., which controls all the street car lines in Philadelphia, Pa., has resigned.

Prof. E. F. Nichols, of Colgate University, Hamilton, N. Y., has accepted the position of Professor of Physics in Dartmouth College, Hanover, N. H.

Mr. Frank E. Wade, electrical engineer, of Scranton, Pa., has gone to Para, Brazil, to plan and erect an electric light and power plant for the government.

Mr. Joseph A. West, civil engineer, of the Sumpter Valley Ry., with headquarters at Baker City, Ore., has been appointed Chief Engineer of the Utah & Pacific R. R.

Mr. Henry S. Fleming, Secretary of the Anthracite Coal Operators' Association, sailed for Europe, Sept. 17, for the purpose of ascertaining what markets exist abroad for American anthracite.

Mr. Irwin J. Macomber, Instructor in Electrical Engineering in Cornell University, Ithaca, N. Y., has been appointed Professor of Electrical Engineering in the Armour Institute of Technology, Chicago, Ill.

Mr. Edwin M. Herr, Superintendent of Motive Power, of the Northern Pacific Ry., with headquarters at St. Paul, Minn., has resigned to become Assistant General Manager of the Westinghouse Air Brake Co., Pittsburg, Pa.

Mr. David J. Jennings, General Manager of the New York, Chicago & St. Louis R. R., has been appointed Manager of the Hoosac Tunnel & Wilmington R. R., with headquarters at Holyoke, Mass., to succeed Mr. Alfred W. Street.

Major Thomas W. Symons, M. Am. Soc. C. E., Corps of Engineers, U. S. Army, with headquarters at Buffalo, N. Y., has been appointed a member of the board of engineers to study and revise the subject of improvements in the waterways at Savannah, Ga., and Beaufort, S. C.

Prof. George Herbert Hamlin, M. Am. Soc. C. E., for 26 years a member of the Faculty of the University of Maine, Orono, Me., and for 17 years Professor of Civil Engineering, has resigned. Mr. Nathan Clifford Glover, of the class of 1896, Assistant Professor of Civil Engineering, has been appointed to succeed him.

Prof. Earle B. Lovell, Adjunct Professor of Civil Engineering in Lafayette College, Easton, Pa., for the past three years, has resigned to accept the position of Adjunct Professor of Civil Engineering in Columbia University, New York city, with special charge of railway engineering and of the Summer School of Surveying.

Mr. Henry St. L. Coppee, M. Am. Soc. C. E., United States Assistant Engineer, with headquarters at Greenville, Miss., has been given charge of all government levees in the Lower Yazoo Levee District in Mississippi. Mr. E. C. Tollinger has been appointed United States Assistant Engineer in charge of the government levees in the Upper Tensas Levee District in Arkansas and Louisiana.

Mr. Gardner Stewart Williams, Assoc. M. Am. Soc. C. E., lately Civil Engineer to the Board of Water Commissioners, Detroit, Mich., has been appointed Professor of Civil Engineering in charge of the Hydraulic Laboratory of Cornell University, Ithaca, N. Y. This is a newly created chair in the College of Civil Engineering. Mr. Williams graduated from the University of Michigan, Ann Arbor, Mich., in 1889, and has spent the nine years since then in water-works construction and on the United States Lighthouse Board.

OBITUARY.

Mr. Edward Allen, contractor and builder of chemical and acid furnaces, of Baltimore, Md., died Sept. 16, aged 55.

Mr. William Becker, stone contractor, of Pittsburg, Pa., died Sept. 14, aged 49.

Mr. Henry A. Cornwall, Manager of the Middlesex Quarry Co., Portland, Conn., died in Providence, R. I., Sept. 17, aged 55.

Mr. Elijah Brainard, dredging contractor, of New York city, was accidentally killed by a fall, Sept. 14. He was 55 years of age.

Mr. E. O. Jones, Superintendent of Bridge Construction of the Houston & Texas Central R. R. for the past 30 years, died at his home in Ennis, Tex., Sept. 9, aged 67.

Mr. Lewis E. Haupt, civil engineer, died in Philadelphia, Pa., Sept. 17, aged 72. He was a brother of Brig.-Gen. Herman Haupt, and was associated with him in the engineering work of the Army of the Potomac during the Civil War. He was an uncle of Prof. Lewis M. Haupt, M. Am. Soc. C. E., of Philadelphia.

Mr. Charles Spinks, of Newport, Ky., for many years one of the leading general contractors of that state, was accidentally drowned in the Ohio River, Sept. 13, while superintending the removal of some empty barges. He built many of the newly constructed streets in Newport, Lexington and Louisville, Ky., and in Cincinnati, O. He also recently completed a $400,000 contract for streets in New Orleans. He was 68 years of age.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Sept. 19. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Sept. 27. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

FRANKLIN INSTITUTE.
Sept. 27. "Rail Bonding with Especial Reference to Cast Weld Joints," W. E. Harrington. Secy., Wm. H. Wahl, 15 South Seventh St., Philadelphia, Pa.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 27-29. Annual meeting, Springfield, O. Secy., John Fisher, 11 Riley St., Hamilton, O.

AMERICAN PUBLIC HEALTH ASSOCIATION.
Sept. 27-30. Annual meeting, Ottawa, Canada. Secy., Dr. C. O. Probst, Columbus, O.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Sept. 28. Secy., R. W. Pope, 26 Cortlandt St., New York city.

WESTERN SOCIETY OF ENGINEERS.
Sept. 28. "The Foundations for the U. S. Government Post Office and Customs House Building at Chicago," W. Sooy Smith. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

ENGINEERS' CLUB OF COLUMBUS.
Oct. 1. Secy., H. M. Gates, 12½ North High St., Columbus, O.

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Oct. 3. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.

ENGINEERS SOCIETY OF WESTERN NEW YORK.
Oct. 3. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Oct. 5. Secy., C. W. Hunt, 220 W. 57th St., New York city.

ENGINEERS' CLUB OF ST. LOUIS.
Oct. 5. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.

BROOKLYN ENGINEERS' CLUB.
Oct. 6. Secy., A. J. Prevost, Jr., 191 Montague St., Brooklyn, N. Y.

CHICAGO ELECTRICAL ASSOCIATION.
Oct. 7. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Oct. 7. Secy., O. Von Geldern, 519 Market St., San Francisco, Cal.

MONTANA SOCIETY OF ENGINEERS.
Oct. 8. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

NATIONAL ROAD PARLIAMENT.
Oct. 8. Omaha, Neb. Martin Dodge, Director Office of Road Inquiry, Washington, D. C.

ENGINEERS' CLUB OF KANSAS CITY.
Oct. 10. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

THE LOUISIANA ENGINEERING SOCIETY.
Oct. 10. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

NEW ENGLAND RAILROAD CLUB.
Oct. 11. Secy., Edw. L. Janes, P. O. Box 1158, Boston, Mass.

DENVER SOCIETY OF CIVIL ENGINEERS.
Oct. 11. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

NORTHWEST RAILWAY CLUB.
Oct. 11. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

AMERICAN RAILWAY ASSOCIATION.
Oct. 12. Holland House, New York. Secy., W. F. Allen, 24 Park Place, New York.

ENGINEERING ASSOCIATION OF THE SOUTH.
Oct. 13. Secy., C. B. Wilson, 1000 Broad St., Nashville, Tenn.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Oct. 13. Secy., C. A. McNab, 112 Mansfield St., Montreal, Canada.

ST. LOUIS RAILWAY CLUB.
Oct. 14. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

ENGINEERS' CLUB OF PHILADELPHIA.
Oct. 15. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

TECHNICAL CLUB OF OMAHA.
Oct. 17. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
Oct. 17. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Oct. 18. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting, Buffalo, N. Y. Secy., R. W. Raymond, P. O. Box 223, New York city.

AMERICAN ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18-20. Annual meeting, Richmond, Va. Secy., S. F. Patterson, Boston & Maine R. R., Concord, N. H.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
Oct. 19. Secy., Frank H. Olmsted, Los Angeles, Cal.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Oct. 19. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Oct. 19. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 19-20. Annual meeting, Scranton, Pa. Secy., S. P. Light, Lebanon, Pa.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19-21. Annual meeting, Niagara Falls, N. Y. Secy., Alfred E. Forstall, Montclair, N. J.

ENGINEERS' CLUB OF CINCINNATI.
Oct. 20. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

NEW YORK RAILROAD CLUB.
Oct. 20. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Oct. 20. Secy., F. A. Charpiot, P. O. Box 13, Savannah, Ga.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENT.
Oct. 26-28. Annual meeting, Washington, D. C. Secy., D. L. Fulton, Bureau of Highways and Sewers, Allegheny, Pa.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 10-11. Annual meeting. Secy., Francis T. Bowles, 12 West 31st St., New York.

THE LOUISIANA ENGINEERING SOCIETY.—A meeting of this society was held Sept. 12. Owing to inclement weather Mr. Llewellyn's paper, "The Evolution of Structural Designs," was postponed.

AMERICAN RAILWAY ASSOCIATION.—The Fall meeting of this association will be held at the Holland House, New York city, Oct. 12, at 11 a. m. Reports will be presented by the Executive Committee and the Committees on Train Rules, Car Service, Safety Appliances, Interlocking and Block Signals, Nominations and the Metric System.

NORTHWEST RAILWAY CLUB.—The first fall meeting of this club was held at St. Paul on Sept. 13. Two papers were read, one by Mr. J. C. Barber, of the Standard Truck Construction Co., Chicago, on "Car Truck Construction and Repairs," the other by Mr. J. H. Goodyear, Chicago & Great Western Ry., on "The Proposed Consolidation of the Master Mechanics' and Master Car Builders' Associations."

FRANKLIN INSTITUTE.—The following is the schedule of meetings to be held during September and October: Sept. 27, Electrical Section, "Rail Bonding with Especial Reference to Cast Weld Joints," Mr. W. E. Harrington; "The Present Status of the Storage Battery," Mr. Herbert Lloyd; Oct. 5, meeting of the Committee on Science and the Arts; Oct. 12, Mining and Metallurgical Section, "Anthracite Coal in Peru," Wm. Griffith, Mining Engineer, Scranton, Pa.

MASSACHUSETTS STREET RAILWAY ASSOCIATION.—The annual meeting of this association was held in Boston, Mass., on Sept. 14. The following officers were elected for the ensuing year: Pres., P. F. Sullivan; First Vice-Pres., John R. Graham; Second Vice-Pres., E. C. Foster; Secy., Chas. S. Clark; Treas., W. F. Pope; Executive Committee, A. A. Glazier, E. P. Shaw, Wm. A. Bancroft, F. H. Dewey, S. M. Thomas; Auditing Committee, John N. Akarman, Robert S. Goff, P. L. Saltonstall.

Charles S. Clark, Secy.

NATIONAL ROAD PARLIAMENT.—Mr. Martin Dodge, Director of Office of Road Inquiry, Washington, D. C., acting on behalf of the President of the National Road Parliament, has called a meeting for Oct. 8, at 10 a. m. The meeting will be held in the Auditorium on the grounds of the Trans-Mississippi Exposition, at Omaha, Neb. The object of this meeting is to awaken and promote a general interest in the improvement of public roads, to discuss the best methods of building and maintaining them and to promote good roads legislation.

OHIO VALLEY IMPROVEMENT ASSOCIATION.—The anual convention of this association was held on Sept. 14-15 at Wheeling, W. Va. It will be remembered that this organization has as its object the promotion of industry and commerce in the region contiguous to the Ohio River, by securing the construction by the Government of dams and locks on the navigable rivers.

Resolutions were adopted urging upon Congress the necessity of improving the Ohio River to Cairo, and particularly recommending a dam just below Cincinnati to form a pool there, and one at Marietta. It was also recommended that there be governmental improvements at the pass and at the mouth of the Mississippi.

Louisville, Ky., was selected as the convention city for next year, and the following officers were elected for 1898: Pres., John L. Vance, Gallipolis; Secy., E. P. Wilson, Cincinnati; Vice-Presidents, Hullipen Quarler, Wheeling; F. A. Laidley, Ohio; W. W. Hite, Kentucky; John Gilbert, Indiana; Capt. J. S. Dravo, Pennsylvania; Marion Wright, Illinois.

THE CIVIL ENGINEERS' CLUB OF CLEVELAND.—A meeting of this club was held on Sept. 13, with 27 members and visitors present. The proposed amendment to the constitution, changing the name of the club to "The Cleveland Society of Civil Engineers," was taken up and discussed and lost by a large majority, as was also the original motion to adopt the name, "The Cleveland Society of Engineers." A further motion to adopt "The Cleveland Technical Society" met a like fate.

Mr. John P. Coffin then read a paper on "Some Points of Interest Gathered from an Inspection of the Machinery of Vessels on the Great Lakes, Together with a Synopsis of the Rules Compiled by the Great Lakes Register for Future Construction, and the Reasons for the Same," which was listened to with great attention. The paper reported upon the prevailing types of boilers, engines, pumps and other machinery now afloat on the Great

Lakes, as ascertained from a critical survey of over 1,300 vessels; it mentioned certain defects in design and proportion, and described the rules adopted to govern future construction. Wm. H. Searles, Secy.

NEW PUBLICATIONS.

PROCEEDINGS AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION, 1898.—Published by the Association, John W. Cloud, Secretary, Chicago, Ill. Cloth, 6 × 9 ins.; pp. 288; illustrated.

This issue of the proceedings contains the papers, special committee reports and the discussions and business transactions of the annual convention, held at Saratoga, N. Y., June 20, 21 and 22, 1898, which were fully reported in Engineering News, of June 23 and 30, 1898.

JOURNAL OF THE AMERICAN ASIATIC ASSOCIATION, Vol. I., No. 1.—Edited by John Foord, P. O. Box 1500, New York city.

The American Asiatic Association was organized in June last. It includes many of the firms, corporations and individuals concerned in the American export trade in the far East. The "Journal" is to be issued "as occasion may require," in order to facilitate the interchange of views among the members, and to provide a medium for the diffusion of information bearing on the development of commercial enterprise in Eastern Asia and Oceanica. The first number of the "Journal" is only four pages 8 × 10 ins. It contains in addition to a number of letters bearing upon the objects of the Association some statistics of Chinese customs revenue and a report of the new trade regulations on the Yangtze River.

THE OHIO MINING JOURNAL.—Official organ of the Ohio Institute of Mining Engineers. Nos 24 and 25. Proceedings of the meetings of Jan., 1895, and Jan. 1896. Published by R. M. Haseltine, Secy. and Treas., Columbus, O. Paper; 6 × 9 ins.; pp. 108, 158.

This volume contains a number of practical papers and discussions of subjects relating to coal mines. Among them are the following: "Long Wall Mining," by Thomas West; "Spontaneous Combustion," by John P. Jones; "The Protection of Miners, by Andrew Roy; "Mine Surveying," by Prof. Frank A. Ray; "Practical Mining," by Thomas H. Love; "Economic Questions Connected with Retort Coke Ovens, with the Resulting By-products," by H. M. Atwater; "Wire Rope Haulage, Its Uses and Abuses," by T. E. Hughes; "Theoretical and Practical Mine Ventilation," by F. C. Keighley; "Mine Wiring—Distribution of Electricity in Coal Mines," by C. A. Pratt.

ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS. —Proceedings of the 13th Annual Meeting, held at Peoria, Ill., Jan. 26, 27, 28, 1898. Recording Secretary, Mr. J. C. Quade, City Engineer, Kewanee, Ill. Paper; 8¾ × 6 ins.; pp. 198. 50 cts.

Contents: Proceedings of meeting and address of the retiring President, Mr. C. C. Stowell; "Chemistry of Water Supply," Prof. A. W. Palmer; "Purification of Sewage by the Ferrozone Polarite System," John W. Alvord; "Deep Well Pumping," E. E. Johnson; "The Improvement of Transportation in Country Districts," E. E. Russell Tratman; "Brick and Macadam Country Roads," J. Ed. Miller; "Improving the Roads of Illinois," J. T. Schmeltzer; Reports of Committees on Public Highways, Water-Works and Supply, Land and City Surveying, Drainage, Weights and Measures, Municipal Engineering, Paving Brick, and Instruments, Blanks and Records; "Railway Construction in Mexico," L. P. Atwood; "Cost of Tie-Plates on R. G. S. M. & P. Ry.," L. P. Atwood; "U. S. Government Geological Survey," John T. Stewart; "Proposed State Supervision of Water Supply and Sewage Disposal," J. A. Harman; "City Map Making," M. Huebinger; Report of Treasurer; List of Members.

MICHIGAN ENGINEERS' ANNUAL. 1898.—Published by the Michigan Engineering Society. F. Hodgman, Secretary, Climax, Mich. Paper; 8¾ × 5¾ ins.; pp. 200. 50 cts.

Contents: "Our Country Roads," F. Hodgman; "The Engineer's Assistant," W. B. Sears; "Our Absent Members," G. G. Hubbell; "The U. S. Deputy Surveyor," Dorr Skeels; "The Ladies," Col. E. W. Muenscher; "The Country Road Maker," Wm. Appleton; "Engineer's Personal Finances," G. L. Wells; "The Sewage of Pontiac," H. E. Riggs; "A Barrel of Salt," G. G. Hubbell; "Curb and Sidewalk Grades," W. D. Elder; "Interlocking Switch and Signal Systems," Alex. Moore; "Electrolysis," R. C. Smith; "The Intakes of the Great Lakes," T. W. Barrally; "Contract vs. Day Labor," E. W. Muenscher; "The Horseless Carriage," R. E. Olds; "The Inspector and his Duties," H. Hodgman; "The Propeller Wheel," H. C. Pearsons; "A Case in Land Surveying," F. Hodgman; "Materials for Street Paving," "Report of Committee on Drain Laws and Legislation," E. Strong; "Report of Annual Convention and List of Members."

IOWA ENGINEERING SOCIETY.—Proceedings of Tenth Annual Meeting at Cedar Rapids, Iowa, Jan. 19-20, 1898. Secretary, E. P. Boynton, Cedar Rapids, Ia. Paper; 8¾ × 6 ins.; pp. 152. 50 cts.

Contents: Business meeting, addresses and committee reports; "Street Grades," L. H. Stone; "Street Car Service," B. Schreiner; "The Country Surveyor as a Map Publisher," G. S. Pingrey; "Laying a Submerged Water Main," E. P. Boynton; "The Centreville Cemetery," Wm. Steyh; "Education as a Means," Prof. J. T. Beard; "Water Supply of Des Moines," L. Higgins; "Interpretation of Sanitary Water Analysis," Prof. Floyd Davis; "Iowa Geology from an Engineering View," Prof. S. Calvin; "Lights and Lenses," Prof. W. H. Mahaffie; "Artesian Wells of Iowa," Prof. W. H. Norton; "Portland Cement," J. W. Dickinson; "Des Moines Paving Brick and Clays," E. P. Boynton; "Tests of Iowa Building Stone and Paving Brick," Prof. A. Marston; "Graphic Determination of Stresses," Prof. A. V. Sims; "Purification of Water for R. R. Purposes," Prof. Floyd Davis.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 8½ x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

PIPE THREADING AND CUTTING MACHINES.—The Bagnall & Keller Mfg. Co., Edwardsville, Ill. Catalogue No. 14. Pamph., 4½ × 6¾ ins.; pp. 108.

This catalogue contains illustrations and price lists of a great variety of pipe fitters' tools, including the "Peerless" and "Duplex" threading and cutting machines, vises, taps, dies, etc.

SHEET METALS AND METAL SPECIALTIES.—Merchant & Co., Philadelphia, Pa. Pamph., 6 × 9 ins.; pp. 112.

This is an illustrated catalogue and price list of a great variety of things. The firm of Merchant & Co. owns a large tin plate, smelting and refining works, and warehouses in Philadelphia, New York, Brooklyn and Chicago, where are carried stocks of metals, tin-plate, metal shingles, ventilators, cornices, troughs, finials, metallic lathing, sheet metal pipes, and many other articles used by builders. The catalogue will be of service especially to architects and workers in sheet metal.

THE LAKE SHORE LIMITED.—Passenger Department, New York Central & Hudson River R. R., New York, N. Y. Pamph., 4 × 8 ins.; pp. 32; illustrated.

This pamphlet contains, in addition to illustrations and a brief description of the cars and their appointments, a descriptive time table detailing in concise language the principal objects of interest that may be seen from time to time as the train progresses on its daily journey. For instance, in this time table the passenger is given the name of each river crossed, where it rises and where it empties, the name of the town he is passing, its population, principal industries, etc., etc., and a variety of similar information which is of particular interest to the traveler, and which he ordinarily never obtains except at the pains of many questions and much exertion. So far as we know this is a feature not heretofore made use of in railway advertising, and it is in every respect a meritorious one. A copy of this pamphlet will be sent free to any address.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Sept. 22.	Hospital buildings, etc.,	Central Islip, N.Y.	Sept. 1
Sept. 22.	Power plant,	Wrightsville, Pa.	Sept. 8
	Advertised, Eng. News, Sept. 8 and 15.		
Sept. 22.	Stone jetties,	Green Harbor, Mass.	Sept. 8
	Advertised, Eng. News, Sept. 8 and 15.		
Sept. 22.	Barge,	Biloxi, Miss.	Sept. 15
Sept. 22.	Heating,	Ogdensburg, N. Y.	Sept. 15
Sept. 22.	School building,	Osceola, Wis.	Sept. 15
Sept. 22.	Sewers,	Newark, N. J.	Sept. 22
Sept. 22.	Bridge repairs,	Paducah, Ky.	Sept. 22
Sept. 22.	Grading, etc.,	Paducah, Ky.	Sept. 22
Sept. 22.	Paving,	Columbus, O.	Sept. 22
Sept. 22.	Grading (17 streets),	La Crosse, Wis.	Sept. 22
Sept. 23.	Trestle, wharf, etc.,	Astoria, Ore.	Sept. 22
Sept. 23.	Macadamizing,	Boston, Mass.	Sept. 22
Sept. 23.	Cement walks, etc.,	Chicago, Ill.	Sept. 22
Sept. 23.	Cedar paving, etc.,	Detroit, Mich.	Sept. 22
Sept. 23.	Brick paving,	Independence, Kan.	Sept. 22
Sept. 23.	Asphalt paving,	Omaha, Neb.	Sept. 15
Sept. 23.	Road work,	Albany, N. Y.	Sept. 15
Sept. 23.	Gravel roads,	Brownstown, Ind.	Sept. 15
Sept. 23.	Cement walks,	North Vernon, Ind.	Sept. 15
Sept. 23.	High-school building,	Camden, N. J.	Sept. 8
Sept. 23.	Supplies,	Watervliet, N. Y.	Aug. 25
Sept. 24.	Capitol building,	Columbus, O.	Sept. 1
Sept. 24.	Electric plant,	Pensacola, Fla.	Sept. 1
Sept. 24.	Quay wall,	San Francisco, Cal.	Sept. 1
Sept. 24.	School building,	Shreveport, La.	Sept. 8
Sept. 24.	Building material,	Pine Ridge, S. Dak.	Sept. 8
Sept. 24.	Street bonds,	Cambridge, O.	Sept. 15
Sept. 24.	Boilers,	Providence, R. I.	Sept. 22
Sept. 24.	Iron bridge and abutments,	Bradford, Pa.	Sept. 22
Sept. 24.	Market building,	Detroit, Mich.	Sept. 22
Sept. 24.	Channel,	Waterbury, Conn.	Sept. 22
Sept. 24.	Telephone, etc.,	Washington, D. C.	Sept. 22
Sept. 24.	Engine house,	Pittsburg, Pa.	Sept. 22
Sept. 24.	Sewage disposal beds,	Concord, Mass.	Sept. 22
Sept. 26.	Engine and generator,	Kings Park, N. Y.	Sept. 22
Sept. 26.	Improvement bonds,	Syracuse, N. Y.	Sept. 22
Sept. 26.	Water meters (3),	Jersey City, N. J.	Sept. 22
Sept. 26.	Steam heating,	Frazee, Minn.	Sept. 22
Sept. 26.	Brick sewers,	Springfield, Mass.	Sept. 22
Sept. 26.	Pipe sewer,	Bradford, Pa.	Sept. 22
Sept. 26.	Pipe sewer,	Jersey City, N. J.	Sept. 22
Sept. 26.	Water pump,	Marietta, O.	Sept. 15
Sept. 26.	Electric light plant,	Modesto, Cal.	Sept. 15
Sept. 26.	Bridge substructure,	Westfield, Mass.	Sept. 15
	Advertised, Engineering News, Sept. 15.		
Sept. 26.	Bonds,	Dayton, O.	Aug. 25
Sept. 27.	Municipal building work,	Brooklyn, N. Y.	Sept. 15
Sept. 27.	High school building,	Burlington, Vt.	Sept. 15
	Advertised, Eng. News, Sept. 15 and 22.		
Sept. 27.	Sewer,	Mingo Junction, O.	Sept. 22
Sept. 27.	Pipe sewers,	Chicago, Ill.	Sept. 22
Sept. 27.	Asphalt paving,	Kansas City, Mo.	Sept. 22
Sept. 27.	Macadamizing, etc.,	Wilmette, Ill.	Sept. 22
Sept. 27.	Hospital building,	Jersey City, N. J.	Sept. 22
Sept. 27.	Street cleaning,	Lansingburg, N. Y.	Sept. 22
Sept. 27.	Water pipe, etc.,	Nashville, Tenn.	Sept. 22
Sept. 27.	Machinery,	Boston Navy Yard	Sept. 22
Sept. 27.	Naval supplies,	Washington, D. C.	Sept. 22
Sept. 27.	Naval supplies,	New York, N. Y.	Sept. 22
Sept. 27.	Machinery,	Norfolk, Va.	Sept. 22
Sept. 27.	Sheet asphalt,	Schenectady, N. Y.	Sept. 22
Sept. 27.	Asphalt paving,	Louisville, Ky.	Sept. 22
Sept. 27.	Graveling and brk walks,	Alexandria, Ind.	Sept. 22
Sept. 27.	Brick paving, etc.,	Pontiac, Ill.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Sept. 28.	Bridge (4 144-ft. spans),	Eau Claire, Wis.	Sept. 22
Sept. 28.	Brick paving,	Steubenville, O.	Sept. 22
Sept. 28.	Brick paving,	Salamanca, N. Y.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Sept. 28.	Sewer,	Easton, Minn.	Sept. 22
Sept. 28.	Brick paving,	Buffalo, N. Y.	Sept. 22
Sept. 28.	School building,	Orange, N. J.	Sept. 15
Sept. 28.	Water-works,	Harriaville, N. Y.	Sept. 15
Sept. 28.	Electric light bonds,	Coffeyville, Kan.	Sept. 15
Sept. 28.	U. S. building,	Brockton, Mass.	Sept. 1
	Advertised, Eng. News, Sept. 1 and 8.		
Sept. 29.	Water-works,	Wivenhoe, England	Sept. 1
Sept. 29.	Court house,	Marietta, Ga.	Aug. 18
Sept. 29.	Steel bridge,	Durango, Colo.	Sept. 15
Sept. 29.	Laying water pipe,	Cincinnati, O.	Sept. 22
Sept. 29.	Water pipe, etc.,	Buffalo, N. Y.	Sept. 22
Sept. 29.	Street bonds,	Phillipsburg, N. J.	Sept. 22
Sept. 30.	Asphalt paving,	Niagara Falls, N. Y.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Sept. 30.	Hospital,	National Military Home, Kan.	Sept. 22
Sept. 30.	Asphalt, brick, etc.,	Omaha, Neb.	Sept. 22
Sept. 30.	Macadam paving,	Milford, Conn.	Sept. 22
Sept. 30.	Pipe sewers,	Des Moines, Ia.	Sept. 22
Sept. 30.	Storm sewer,	Amsterdam, N. Y.	Sept. 15
Sept. 30.	Gravel road (7 miles),	Rockville, Ind.	Sept. 15
Sept. 30.	Water bonds,	Colton, Cal.	Sept. 15
Sept. 30.	School building,	Sheboygan, Wis.	Sept. 15
Sept. 30.	Improving reservoir,	Albany, N. Y.	Sept. 8
	Advertised, Engineering News, Sept. 8.		
Sept. 30.	Coal shaft,	Latrobe, Pa.	Sept. 8
Oct. 1.	Towboat,	St. Louis, Mo.	Sept. 8
Oct. 1.	Arc lighting,	Marshfield, Wis.	Aug. 18
Oct. 1.	Monitors (4),	Washington, D. C.	July 7
Oct. 1.	School building (equipment),	St. Thomas, Ont.	July 7
Oct. 1.	Road roller,	Sheboygan, Wis.	Sept. 1
	Advertised, Engineering News, Sept. 1.		
Oct. 1.	Head-race (power plant),	Montreal, Que.	Sept. 1
	Advertised, Eng. News, Sept. 1 to 15.		
Oct. 1.	Electric plant,	New Richmond, O.	Sept. 15
Oct. 1.	Arc lighting,	Huntington, W. Va.	Sept. 15
Oct. 1.	School building,	Sitka, Ala.	Sept. 15
Oct. 1.	Canal work,	Kirkersville, O.	Sept. 22
Oct. 1.	Pipe sewers,	Elizabeth, N. J.	Sept. 22
Oct. 1.	Water-works,	Beresford, S. Dak.	Sept. 22
Oct. 1.	School-house bonds,	Wadley, Ga.	Sept. 22
Oct. 3.	Flood gates,	Dayton, O.	Sept. 22
Oct. 3.	Macadam paving,	Atlantic City, N. J.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Oct. 3.	Brick paving,	Atlantic City, N. J.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Oct. 3.	Pile bridge,	Topeka, Kan.	Sept. 22
Oct. 3.	Bridge,	Redwood City, Cal.	Sept. 22
Oct. 3.	Bridge (115-ft. long),	Westfield, Mass.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Oct. 3.	Levee work,	Dayton, O.	Sept. 22
Oct. 3.	Lumber,	New York, N. Y.	Sept. 22
Oct. 3.	Steel bridges (2 spans),	Waverly, Ia.	Sept. 22
Oct. 3.	Deep well,	Plankinton, S. Dak.	Sept. 22
Oct. 3.	Church building,	Mount Carmel, Ill.	Sept. 22
Oct. 3.	Superstructure and repair,	Chillicothe, O.	Sept. 15
Oct. 3.	Street work,	Toledo, O.	Sept. 1
Oct. 3.	Building plans,	Liverpool, England	Sept. 8
Oct. 3.	Building superstructure,	Philadelphia, Pa.	Sept. 8
	Advertised, Eng. News, Sept. 8 and 15.		
Oct. 3.	Bridge,	Flandreau, S. Dak.	Sept. 8
Oct. 4.	Coal conveyors, etc.,	Chicago, Ill.	Aug. 25
	Advertised, Eng. News, Aug. 25 to Sept. 29.		
Oct. 4.	Bridge,	Stockton, Cal.	Sept. 15
Oct. 4.	Brick paving, etc.,	Norwalk, O.	Sept. 15
Oct. 4.	Improving road,	Deerfield, N. Y.	Sept. 22
Oct. 4.	Electric plant,	Barnesville, Minn.	Sept. 22
Oct. 4.	Electric lighting,	Philadelphia, Pa.	Sept. 22
Oct. 4.	High-school building,	Troy, N. Y.	Sept. 22
Oct. 4.	Water-works,	Eaton Rapids, Mich.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 5.	Grading, etc.,	Troy, N. Y.	Sept. 22
Oct. 5.	Grading, paving, etc.,	Cleveland, O.	Sept. 22
Oct. 5.	Granite paving,	Cincinnati, O.	Sept. 15
Oct. 5.	Bridge superstructure,	Chicago, Ill.	Aug. 11
Oct. 5.	Dredging,	Oakland, Cal.	Sept. 8
Oct. 5.	Shore protection,	Fort Morgan, Ala.	Sept. 8
	Advertised, Eng. News, Sept. 8 to 29.		
Oct. 6.	Electric light plant,	St. Joseph, Ill.	Sept. 22
	Advertised, Engineering News, Sept. 22.		
Oct. 6.	Water-works,	Greensboro, Ga.	Sept. 22
Oct. 7.	Arc lighting,	Asheville, N. C.	Sept. 22
Oct. 7.	Asphalt and macadam,	Cleveland, O.	Sept. 22
Oct. 7.	Granitoid sidewalks,	St. Louis, Mo.	Sept. 22
Oct. 8.	Bridge work,	Cincinnati, O.	Sept. 22
Oct. 8.	Bridge,	New Baltimore, O.	Sept. 22
Oct. 8.	School building,	Bisbee, N. Dak.	Sept. 22
Oct. 10.	Sewers and disposal plant,	E. Cleveland, O.	Sept. 22
Oct. 10.	Dredging,	Wilmington, Del.	Sept. 22
	Advertised, Eng. News, Sept. 15 and 22.		
Oct. 10.	Cement, stone, etc.,	Ft. Washington, D. C.	Sept. 22
	Advertised, Eng. News, Sept. 22 and 29.		
Oct. 10.	Asphalt and brick paving,	Council Bluffs, Ia.	Sept. 22
Oct. 10.	Macadamizing,	St. Paul, Minn.	Sept. 22
Oct. 10.	Turbine wheels (24),	Wrightsville, Pa.	Sept. 8
	Advertised, Eng. News, Sept. 8 and 15.		
Oct. 10.	Trestle,	Chehalis, Wash.	Sept. 8
Oct. 10.	Paving,	Toledo, O.	Sept. 15
Oct. 12.	Hospital buildings,	San Francisco, Cal.	Sept. 15
Oct. 12.	Park bonds,	Spokane, Wash.	Sept. 1
Oct. 12.	Sewers,	Cohoes, N. Y.	Sept. 22
Oct. 13.	Hire of dredging plant,	Mobile, Ala.	Sept. 15
	Advertised, Eng. News, Sept. 15 to Oct. 6.		
Oct. 14.	Cement walks,	North Vernon, Ind.	Sept. 15
Oct. 15.	Water-works,	Wagoner, Ind. Ter.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 6.		
Oct. 15.	Masonry, woodwork, etc.,	Cincinnati, O.	Sept. 22
Oct. 15.	School building,	Harris, Minn.	Sept. 22
Oct. 15.	Sewers,	Marietta, O.	Sept. 22
Oct. 17.	Sewerage system,	Mobile, Ala.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 6.		
Oct. 17.	Gasholder, etc.,	Edinburgh, Scotland	Sept. 1
Oct. 18.	Railway track,	Cincinnati, O.	Sept. 22
Oct. 20.	Viaduct over Lick Run,	Cincinnati, O.	Sept. 22
Oct. 21.	Levee work,	West Memphis, Tenn.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 13.		
Oct. 21.	Dry dock,	Algiers, La.	Sept. 8
Oct. 23.	Plans for sewer system,	Chertsey, Eng.	Sept. 22
Oct. 24.	Markets, etc.,	Belem, Brazil.	Apr. 28
Oct. 25.	Jetties,	Portland, Ore.	Aug. 25
	Advertised, Eng. News, Aug. 25 to Sept. 15.		
Oct. 30.	School building,	Chehalis, Wash.	June 16
Nov. 1.	Court house,	Garner, Ia.	Sept. 8
Nov. 1.	School building,	St. Louis, Mo.	Sept. 22
Nov. 7.	Improving electric plant,	Topeka, Kan.	Sept. 22
Nov. 10.	Water supply,	Belem, Brazil	Sept. 22
Nov. 15.	Water-works addition,	Seattle, Wash.	Sept. 22
	Advertised, Eng. News, Sept. 22 to Nov. 10.		
Dec. 31.	Plans for station, etc.,	Stockholm, Sweden	June 23
Jan. 1.	City hall plans,	Bridgeport, Conn.	Aug. 18
No date.	Windmill, tanks, etc.,	Rosebud, S. Dak.	Sept. 22

RAILWAYS.

ABERDEEN & ASHBORO.—This company is now pushing work rapidly on the extension from Troy to Mount Gilead, via Wadeville, N. C., a distance of 13.8 miles, and it is expected that track will be laid by the middle of October. The line is being built by Carpenter & Gibbs. Pres., A. F. Page, Aberdeen, N. C.; Ch. Engr., J. M. Bandy, Greensboro, N. C.

ARIZONA & SOUTHEASTERN.—The Naco branch of this railway, from a point on the main line, eight miles west of Bisbee, Ariz., to the boundary line of Mexico, a distance of four miles, has recently been completed. Supt., Ben Williams, Bisbee.

BAKERSFIELD & LOS ANGELES.—This company has been incorporated in California, according to reports, to construct a railway from Bakersfield over the Tejon Pass to Los Angeles, Cal., a distance of 200 miles. It will connect with the Southern California, a branch of the Santa Fe, running from Mojave to Los Angeles, and with the San Francisco & San Joaquin Valley Ry., thus giving San Francisco another transcontinental road. The incorporators are, Claus Spreckels, John D. Spreckels, A. B. Spreckels, Robert Watt and A. H. Payson, of San Francisco, Cal.

CHICAGO & WABASH VALLEY.—This company was incorporated in Indiana, Sept. 10, with a capital stock of $50,000, to construct about 23 miles of railway from reclaimed lands in Jasper county, purchased four years ago by B. J. Gifford, to a connection with the Eastern Illinois Ry. The incorporators are: Benjamin J. Gifford, Pres., Kankakee, Ind.; James E. Jones, Harlan M. Stone, Charles D. Henry, John B. Reed, Edward D. Calkins and Charles B. Campbell. Mr. Gifford has informed us that the right of way has been obtained and the ties and rails secured; also that the length of the line, at first, would be ten miles.

CHINA.—It is announced that the final contract for granting a concession for the construction of a railway from Hankow to Hong Kong was signed at Washington, D. C., Sept. 14, by the Chinese minister and the American China Development Co. Calvin S. Brice, 80 Broadway, New York, who is said to be the chief promotor of the project, is quoted as stating that the company now has a part of its engineering force on the field, and that a new corps of engineers is being organized, which will make the survey, beginning at Hankow and extending to Canton and thence to Hong Kong, and also beginning at the southern end and coming north on an independent line. The length of the completed line will be over 900 miles, and the estimated cost is from $20,000,000 to $30,000,000. John D. Rockefeller, Levi P. Morton and George P. Bliss are also said to be interested.

CUBA.—Press reports state that Pearson, Simpson & Vaudaria, administrators and engineers of the Western R. R. of Havana, are said to contemplate the extension of its line in Pinar del Rio.

DULUTH & NORTHEASTERN.—This company has been incorporated in Minnesota to build a railway from the Duluth & Iron Range R.R., near Bassett Lake, in a southeasterly direction to Island Lake, 35 miles, and it is proposed to haul logs to this latter place, which is on the Cloquet River. About two hundred men are now said to be at work on the road. The incorporators are Frederick Weyerhauser, St. Paul, Minn.; J. B. Phelps, Davenport, Ia.; H. C. Hornby, J. E. Lynds and J. H. Heninger, of Cloquet, Minn.

ELK & HIGHLAND.—C. H. Kemp, Kane, Pa., informs us that all the contracts have been let for the construction of this proposed steam railway from Coon Run, Elk county, to Portland, Pa., a distance of 17 miles. Pres., D. H. Miller, of Kane.

ESQUIMALT & NANAIMO.—Reports state that this railway is to be extended from Wellington to Departure Bay, and that new wharves will be built at the latter place. Pres., A. Dunsmuir, Victoria, B. C.

FORT DODGE & OMAHA.—This company was incorporated in Iowa, Sept. 14, with a capital stock of $5,000,000, to construct a line from Fort Dodge southwest to Omaha, via Council Bluffs, Ia., a distance of about 200 miles. Preliminary surveys have been made. The incorporators are: John F. Duncombe, Chas. E. Grafton, Clarence A. Moore, Henry B. Litchfield and N. C. Phillips.

FORT WORTH & RIO GRANDE.—Press reports state that Special Master Thomas P. Martin, of Fort Worth, Tex., has sold the Pan Handle branch of this line, from Pan Handle to Washburn, Tex., 15 miles, for $66,240, the purchaser being E. Wilder, of Topeka, Kan.

GEORGE'S CREEK & CUMBERLAND.—Jas. P. Gaffney, Ch. Engr., Cumberland, Md., writes us, regarding improvements to this line, that no extensions are at present contemplated. Construction from year to year is confined to the betterment of the road, which was completed in 1880, and new steel viaducts have replaced the original wooden structures. The Toledo Bridge Co., Toledo, O., has just completed a viaduct, 270 ft. long and 70 ft. high, at Nedham's Run, on this line. The approaches to this viaduct have been regraded and several sharp curves eliminated. Pres., Jas. A. Millholland, Cumberland.

GREENFIELD & MAXWELL.—J. H. Moulden, Greenfield, Ind., informs us that this proposed railway will not be constructed, as the necessary subsidy was not granted. The company was organized by Mr. Moulden and others to build six miles of line to connect the Cleveland, Cincinnati, Chicago & St. Louis Ry. at Maxwell, Ind., with the Pennsylvania system.

HONDURAS.—Wm. S. Valentine, 51 East 44th St., New York, is quoted as stating that the Honduras syndicate, of which he is a managing director, has completed five miles of new railway, and has graded ten miles additional, and that the old line, which was 57 miles in length, has already been transferred to the syndicate. When completed the road will be about 220 miles long. Construction work has been temporarily suspended.

MARSHALL, TIMPSON & SABINE PASS.—T. S. Garrison, Gen. Mgr., Timpson, Tex., informs us that grading has been completed on this line to a point within two miles of Carthage, and that the rails will soon be laid and the work completed within 30 days. The route is from Timpson to Carthage, Tex., a distance of 20 miles. Pres., L. F. Limbert, Dayton, O.

NORTH BEND & KETTLE CREEK.—This company has recently completed the building of a 3-mile extension from Lebo Run to Black Forest, Pa. A. H. Shaffer, Ch. Engr., Emporium, Pa.

OHIO.—Bids are asked by the commissioners of water works of Cincinnati, O., until Oct. 18, for the construction of a railway track and the delivery of track material on the water-works grounds, between the Cincinnati Georgetown & Portsmouth R. R. and the eastern pumping station of the Cincinnati Water-Works, near the village of California, O.; bond, $500. Pres., Aug. Herrmann, of Cincinnati.

ONTARIO & RAINY RIVER.—We are informed that the surveys have been under way for about two months on a route from Port Arthur to Rainy Lake, a distance of 200 miles, but that no decision has yet been made regarding the route. The first 20 miles have been located and let to E. F. Fauquier, of Ottawa, Ont., who began work on Aug. 10, and has about 250 men and 50 teams on the line, the force to be increased as fast as the line is located. Pres., Wm. Mackenzie, Toronto, Ont.; Ch. Engr., T. H. White, Port Arthur, Ont.

PORTLAND, VANCOUVER & YAKIMA.—L. Gerlinger, Pres., Vancouver, Wash., informs us that engineers are now in the field locating a line for an immediate extension to be 15 miles in length. The capital for construction is assured. As stated in our issue of Sept. 8, this company was incorporated last December to operate the old Vancouver, Klickitat & Yakima Ry., and to complete a line of railway from Vancouver to Yakima, Wash., a distance of 170 miles. J. W. Coovert, Ch. Engr., Vancouver, Wash.

PORTLAND & CAMDEN.—This company was incorporated in Indiana, Sept. 14, with a capital stock of $50,000, to build a road through Jay county 12 miles in length. The directors are, G. A. Mason, Hugh Kapp, W. B. Cooley, D. E. Studebaker and W. J. Cook.

PHILADELPHIA & READING.—Geo. S. Webster, Ch. Engr. of Bureau of Surveys, Philadelphia, Pa., informs us that no definite information can yet be given relative to the elevation of this company's tracks on 9th St. Some preliminary study plans have been prepared, but no negotiations have been entered into between the city and the railway company; nor has an ordinance been introduced in the city councils authorizing the work or making appropriations for the same.

POTOSI & RIO VERDE.—This company was incorporated in New York, Sept. 16, with a capital stock of $200,000, to construct a narrow-gage railway, 66 miles in length, from San Luis Potosi southerly to the district of Rio Verde, Mexico. The motive power is to be either steam or electricity. The directors are: Donald C. Brown, of San Luis Potosi, Mex.; Robert S. Towne, George F. Peabody, Edward M. Shepard, A. Foster Higgins, Charles J. Nourse, Jr., Herbert H. Dean, Samuel H. Ordway and Francis N. Holbrook, of New York.

RALEIGH & CAPE FEAR.—J. A. Mills, Pres., Raleigh, N. C., informs us that 12 miles of track have been laid and 14 miles graded on this proposed line from Raleigh to Lillington, a distance of 35 miles. Regular trains run to Raleigh every other day.

SOUTHERN CALIFORNIA.—Press reports state that surveys have been commenced for a new line from Perris, on the main line, to Lake View, Cal., a distance of about ten miles.

STATESBORO & EGYPT.—W. C. Parker, Statesboro, Ga., informs us that nothing has ever been done towards constructing this proposed line, except a survey made some time ago. The attention of Mr. Parker and associates is now turned toward the projected Statesboro & Savannah R.R., which, he says, will doubtless be built.

UNION COVE & VALLEY.—Bids are being received by this company for 30,000 ties for a standard-gage line, and also for bridge timbers, 8x10 inches, of all lengths. Surveys are said to be under way for a proposed extension. Joseph Johnson, Supt. of Construction, Union, Ore.

WABASH.—Reports state that at the annual meeting of the stockholders of this company, it was decided to build or lease a railway wholly or partially constructed, to fill the gap in the system and connect East Hannibal and Quincy, Ill., 15 miles, and also to build or lease a line to connect Moulton and Albia, Ia., and to make the Wabash a continuous line through those points.

WASHINGTON COUNTY.—F. G. Englesing, Div. Engr., Calais, Me., informs us that grading has been completed, 75 miles of track laid and 44 miles ballasted on this new railway. Station buildings, roundhouses and the telegraph line are nearing completion, and schedule trains should be running by Nov. 1. The length of completed line will be 118¼ miles. Reports state that P. H. Stratton has received the contract to build the turntables at Washington Junction and Eastport, to cost $20,000. Pres., Geo. A. Curran, Calais; Ch. Engr., W. B. Parsons, 22 William St., New York.

YORK SPRINGS.—This company was incorporated in Pennsylvania, Sept. 19, with a capital stock of $125,000, to construct a steam railway from York Springs to Dillsburg, Pa., on the Cumberland Valley R. R., a distance of about 14 miles. The incorporators are, M. B. Cumbler, Pres., Carlisle, Pa.; Geo. H. Trostle and Geo. A. Trimmer, both of York Springs, Pa.; C. W. Webbert, Boiling Springs, Pa.; T. H. Alleman, Steelton, Pa.

STREET AND ELECTRIC RAILWAYS.

BERLIN, N. H.—We are informed that a charter has recently been obtained in this city by the Berlin & Gorham Electric Ry. Co., to construct an electric line proposed to connect Berlin with Gorham, a distance of four miles. Arrangements for construction are now progressing. Carlos P. Day, Pres. Bd. of Directors, of Berlin, may be addressed.

PLYMOUTH, MASS.—We are informed that John Turner & Co., 19 Milk St., Boston, has been awarded the contract for the construction of the first section of 3¼ miles of the proposed Plymouth & Sandwich St. Ry. This section, which is wholly within Plymouth, is expected to be in operation by Dec. 1. The completed line will extend from Plymouth to Sandwich, and will be 16 miles in length. All the necessary permits have been obtained, and surveys have been made for four miles. Pres., H. B. Taylor, Boston; Ch. Engrs., Harriman Bros., 3 Somerset St., Boston, Mass.

BUFFALO, N.Y.—The Buffalo Traction Co. has made an application to the council for permission to construct a single track electric street railway on Chenango St., from Utica St. to Rhode Island St.

MANHASSET (L. I.) N. Y.—The board of railway commissioners has granted the application of the New York & North Shore Ry. Co. for permission to construct an electric road from the terminus of the New York & Queen's County R. R. at Middle Village, through Jamaica, Flushing, Whitestone, College Point and Bay Side to Manhasset, Long Island.

PEEKSKILL, N.Y.—It is reported that the Peekskill Traction Co. has advertised for proposals for furnishing 5,000 ties, and that hopes that the proposed line will be built are again revived. The proposed electric railway will run from this town through Cortlandt and Yorktown, and will be about 12 or 14 miles in length. Pres., Frank Frye; Secy. and Treas., Chas. N. Wells, both of Peekskill.

MONTCLAIR, N. J.—The North Jersey St. Ry. Co. has petitioned the town council for a franchise to construct a new electric line from Bloomfield Ave. through Elm St. and Orange Road to the Orange line. A hearing will be given on Oct. 3.

WESTFIELD, N. J.—The township committee granted a franchise to the Westfield & Elizabeth St. R. R. Co., Sept. 15, to build a trolley line through the township towards Rahway. Pres., A. A. Gaddis, Westfield.

LOCK HAVEN, PA.—It is reported that William Herr has received the contract for constructing a new trolley line on Fairview St., and that work was to begin this week and to be completed within 20 days.

PITTSBURG, PA.—The select council has passed an ordinance granting the Duquesne St. Ry. Co. the right to lay tracks on Oakland Ave.

NEWTOWN, PA.—Thomas A. Connell, of Philadelphia, Pa., was awarded the contract by the Newton Electric St. Ry. Co., Sept. 13, to build an extension to its line from Newtown to Doylestown, via Wightstown, Penn's Park, Wycombe, Forestville and Furlong, a distance of 13¼ miles. Work is to be commenced at once, and must be completed by Dec. 15. The Newtown Electric St. Ry. now controls the entire line from Newtown to Bristol, and when the Doylestown extension is completed will have 28 miles of trolley line in operation. Pres., Thomas P. Chambers, Newtown.

WILMINGTON, DEL.—Reports from this city state that work has been resumed on the Wilmington & Brandywine Springs Electric Ry. by Contractor Mahoney, and that it is now expected to complete the work before Nov. 1. A long bridge will be built across Red Clay Creek, near the terminus of the line, by the Delaware Construction Co. The construction of an extension to Kennett Square will be considered later.

MACON, GA.—T. J. Carling, Pres. and Gen. Mgr., Macon & Indian Spring Electric St. Ry. Co., informs us that he is preparing plans for a new power station and equipment. Contracts have been let for the building and the electrical equipment, but not for the boilers and engines. This company is the successor to the former Macon Gas, Light & Water Co.

POINT WASHINGTON, FLA.—Reports state that a tramway for logging purposes will soon be built in this vicinity by Strickland, Wesley & Co.

CHATTANOOGA, TENN.—Work is in progress by the Chattanooga Rapid Transit Co., on the conversion of the old belt line to East Lake into an electric railway. The company has placed orders for cars and other equipment, and has awarded the contract for erecting a new power house at Ridgedale to Adams & Schneider.

ASHTABULA, O.—The Pennsylvania & Ohio Ry. Co. has been granted a franchise to build a line in this city. Surveyors are now said to be at work between Painesville and Conneaut.

WARSAW, IND.—The council has granted a franchise to Noah J. Clodfelter for the construction of an electric street railway from Warsaw to Winona Lake. Mr. Clodfelter represents a syndicate in control of street railways in the gas belt.

VERNON, MICH.—It is reported that the Long Lake, Durand & Corunna Ry. Co. has asked the Vernon township board for a franchise to build through the township. Vernon City, Durand and Fenton have granted franchises, and as soon as this new request is granted it is expected that bids for the construction of the line will be called for.

QUINCY, ILL.—It is reported that the Quincy St. Ry. Co. has decided to increase its capital stock from $300,000 to $600,000 in order to be enabled to make extensive improvements along its line.

BARABOO, WIS.—A company which has recently been formed to construct an electric railway between Devil's Lake and Kilbourn, via Baraboo, has petitioned the council for a franchise. Among those said to be interested are, H. Cottrell, Milwaukee, Wis., and Herman Grotophorst, of Baraboo.

WICHITA, KAN.—Reports state that the city signed a contract with H. B. Church & Co., of Chicago, Sept. 14, for 15 miles of street railway and 14 new cars and an electric light plant of 200 arc lights. The company is required to have both the plants completed within six months, and has placed $10,000 in cash with City Treasurer Kernan as a guaranty fund.

KANSAS CITY, MO.—The Kansas City Interurban Ry. Co., of Kansas City, was incorporated, Sept. 10, with a capital stock of $300,000. Press reports state that the company has bought that part of the Waldo Park dummy line north of the power house at Brush Creek to Westport, and that it will change it into an electric line and possibly build an extension. H. G. Pert and Henry Pfeiffer, of Kansas City, are said to be interested.

NEVADA, MO.—The council has granted a franchise to Quigley & Co., according to reports, for an electric street railway and also for an electric light and gas plant. It is proposed to extend the electric line at once to Eldorado Springs and other points within a radius of 20 miles; estimated cost of the system, $100,000.

SEDALIA, MO.—We are informed that the Sedalia Electric Co. is a consolidation of the Electric Ry., Light & Power Co. and the Sedalia & Brown Springs Electric Ry. Co., and that it will have control of about 15 miles of track and a light plant in this city. The reconstruction of the old line only will be undertaken at present. Pres., S. H. G. Stewart, 40 Wall St., New York; Ch. Engr., J. C. DeLong, New York.

ST. LOUIS, MO.—Press reports state that the Fourth St. Ry. was sold at public auction, Sept. 20, on the foreclosure of a mortgage, to John H. Overall, at $191,000.

BEAUMONT, TEX.—The council has granted a franchise for the construction of an electric railway in this city to J. C. Ward, E. L. Bacon, James F. Ward, V. Wiess, T. H. Langham and J. F. Keith, all of whom are said to be stockholders in the electric light company.

CORSICANA, TEX.—Reports state that William Elliott has commenced the survey for the proposed street railway, a franchise for which has been granted to M. M. Bright and others.

BOULDER, COLO.—Guy D. Duncan and others contemplate the construction of a street car line in this city, and have asked the council for a franchise.

SPOKANE, WASH.—The Spokane St. Ry. Co. has applied to the council for two new franchises, one of which will permit of the abandonment of a part of its line, and the other allow the construction of a branch line on Boone Ave. through Heath's and Sinto's additions.

OREGON CITY, ORE.—The county court has granted a franchise to W. H. Burghardt, Agt., to build an electric motor line over the county road from the city limits to Highland, a distance of eight miles. It is the ultimate intention to make this line about 40 miles in length, extending it to Wilhoit Springs.

PASADENA, CAL.—The Terminal Ry. Co. has been granted a franchise by the city trustees to install electricity on its lines in Pasadena.

MONTREAL, QUE.—The car sheds of the Montreal St. Ry. Co. were destroyed by fire, Sept. 16, causing a reported loss of $100,000 to the buildings and cars and other equipment contained therein.

PERTH, WEST AUSTRALIA.—Reports state that a tramway project for Perth, to cost about $500,000, is being promoted in London, Eng.

ELECTRIC LIGHT AND POWER.

PORTLAND, ME.—The Cumberland Illuminating Co. has asked for permission to put its wire in Congress, Middle and Exchange Sts. underground.

WATERBURY, VT.—The Bolton Falls Power Co. has let the contract for building the dam for its proposed power plant to W. H. Ward & Co., Lowell, Mass. The dam is to be completed in about 14 weeks. It will be 160 ft. long and 45 ft. high. There will be two steel penstocks, one 11 ft. in diameter and the other 9 ft. The brick power house will be 132 × 25 ft. The contract for furnishing 9,000 ft. of lumber for the dam has been let to G. E. Moody, Waterbury.

AKRON, N. Y.—E. Skinner, of the Buffalo Electric Light Co., Buffalo, N. Y., has submitted a proposition to the board of trustees for an electric light plant to cost about $3,000.

HANNAWA FALLS, N. Y.—A. F. Nims, Philadelphia, N. Y., has been awarded the contract for building a canal and masonry dam for the power plant at this place, to cost, it is stated, about $100,000. Engr., W. C. Johnson, Niagara Falls, N. Y.

SEABRIGHT, N. J.—The plant of the Seabright Electric Light Co. was destroyed by fire Sept. 15, causing a reported loss of $12,000. The new plant, which it is decided to build, will be under the control of the town. Pres. Seabright Light Co., Dr. Jas. J. Reed; Secy., E. S. Nesbitt.

DARBY, PA.—New bids for furnishing the materials and for building a plant will be asked in October. Clk. Council, J. F. Wilby.

EASTON, PA.—Local papers state that T. A. H. Hay and W. O. Hay have sold the old cotton mill on the south side of the city to a New England syndicate. A light and power plant will be built at once by the new owners, it to be in operation by Feb. 1.

PHILADELPHIA, PA.—Bids are asked by the director of public safety until Oct. 4 for electric lighting for next season. Estimates are being prepared for a municipal plant. Chn. Com., Wilson H. Brown.

PITTSBURG, PA.—The Pennsylvania Tube Works Co., according to local papers, is making arrangements for the installation of a light and power plant for its works; estimated cost, $100,000. Gen. Mgr., W. B. Rhodes.

WATERFORD, PA.—Wm. R. Irwin, Erie, Pa., is reported to have been granted a franchise for a plant and awarded a 2-year contract for lighting this town. Chn. Com., Dr. W. H. West.

LYNCHBURG, VA.—Thos. D. Davis, Pres. Council, writes us that preliminary steps are being taken to establish an electrical department. Ordinances on the subject have been submitted to the council and will come up for adoption at the meeting Oct. 7.

NORFOLK, VA.—Edwin Stewart, Paymaster-Gen., U. S. N., Washington, D. C., received the following bids Sept. 13 for furnishing electrical apparatus for the navy yard: N. J. Foundry & Machine Co., 26 Cortlandt St., N. Y., $12,450; Seeman & Halsky, 100 Broadway, New York, $11,486; C. & C. Electric Co., 143 Liberty St., New York, $12,520; Burhorn & Granger, 136 Liberty St., New York, $12,088; General Electric Co., Schenectady, N. Y., $11,200.

ASHEVILLE, N. C.—Bids are asked until Oct. 7 for furnishing 100 2,000-c. p. arc lights for a term of three years, the city to have the privilege of buying the plant. Mayor, F. M. Miller; Cy. Clk., M. W. Robertson.

ORANGEBURG, S. C.—An election will be held Sept. 27 to vote on the question of issuing $40,000 in bonds for a plant and water-works.

MACON, GA.—T. J. Carling, Pres. and Gen. Mgr. Macon & Indian Spring Electric St. Ry. Co., is preparing plans for the power and light station and equipments. The contract for boilers and engines have not been placed; that for the building and electrical equipment has been. The plant will have a capacity for furnishing 235 2,000-c.p. arc and 4,000 16-c.p. incandescent lights.

PRATT CITY, ALA.—Paschal G. Shook has been granted a 15-year franchise. The plant will cost about $9,000.

TUSCUMBIA, ALA.—Press reports state as follows: The light and water company of this city, which holds a 20-year franchise, has been notified that unless it gives to the city water and light within a short time, according to the terms of the agreement with the council, it will be requested to surrender the franchise. Another company is anxious to establish water-works and an electric light plant, if it can secure the franchise.

LUMBERTON, MISS.—The question of building a plant is being considered, according to reports.

NEW ORLEANS, LA.—The council, through the light committee, has rejected the resolution asking for bids for lighting the city with electricity for 10 years. The contract with the Edison company has yet four years before its expiration.

MOUNT BLANCHARD, O.—The question of putting in a plant is being considered, according to reports.

NEW RICHMOND, O.—E. Y. Donhan, Mayor, writes us that this place voted Sept. 12 to issue bonds for building a plant and water-works; population, 2,500.

WAPAKONETA, O.—The electric light plant of Wapakoneta is to be considerably enlarged. Geo. Hornung, Mech. Engr., Newport, Ky., has been employed to prepare the plans and specifications for the building, machinery, etc.

WOOSTER, O.—An election will be held Oct. 3 to vote on the question of issuing $25,000 in bonds for the proposed plant.

PEORIA, ILL.—Bids were asked until Sept. 20 for furnishing 400 2,000-c.p. arc light for two years from Nov. 1, check $20,000. Cy. Clk., R. M. Orr.

ROCK ISLAND, ILL.—The question of a municipal plant is being investigated. The present contract for lighting the city expires in a short time. Mayor, Thos. J. Medill, Jr.; Chn. Com., T. A. Pender.

ST. JOSEPH, ILL.—Bids are asked until 7 p. m., Oct. 6, for furnishing the materials and for building a plant. It will have a brick, metal roof, station; one 60-HP. automatic self-oiling engine; a 54 × 16 tubular boiler; a feed pump and heater; a 30-K-W. 220 volt D. C. generator with instruments, and about four miles pole line, as stated is our advertising columns. Chn. Com., C. W. Gibson; Engr., J. D. Wallace, Champaign, Ill.

RICHLAND CENTER, WIS.—R. H. Dhat, Mayor, writes us that bids for furnishing and erecting a plant will be received late in October; estimated cost, about $6,000. No engineer had been engaged up to Sept. 14. The plant will have 35 or 40 arc lights. The plant will be operated in connection with the water-works. Chn. Com., Thos. Brenden.

BARNESVILLE, MINN.—Bids are asked until Oct. 4 for constructing a plant. Engr., C. F. Loweth, 94 E. 4th St., St. Paul, Minn., or 301 W. 3d St., Davenport, Ia.; Clk., H. H. Snell.

MINNEAPOLIS, MINN.—E. T. Abbott has completed estimates for the proposed Coon Creek power plant. Thos. Lowry and Frederick Weyerhauser may be addressed.

TOPEKA, KAN.—Bids are asked until Nov. 7 for furnishing the materials, machinery, etc., for improving the plant; estimated cost, $9,000. Cy. Engr., Wm. H. Barnes. Mayor, C. A. Fellows; Cy. Clk., S. S. McFadden.

NEVADA, MO.—Quigley & Co. have been granted a 20-year franchise for a plant and a 30-year franchise for a street railway. The city has made a 10-year light contract.

WAHOO, NEB.—The plant at this place owned by S. H. Jones was destroyed by fire Sept. 10, causing a reported loss of about $4,000.

SUMPTER, ORE.—Frank Geiser has been granted a 25-year franchise. Recdr., F. J. Hallock.

CREEDE, COLO.—The Amethyst Electric Light & Power Co.'s plant was destroyed by fire Sept. 8, causing a reported loss of about $14,000.

HOUSTON, TEX.—It is stated that arrangements are being made for the immediate reconstruction of the plant of the Citizens' Light & Power Co. The smokestack will be 60 ft. high, the entire plant costing about $160,000. County Engineer Polk and J. C. Polk are the engineers.

BARRIE, ONT.—E. Donnell, Town Clk. and Treas., writes us that bids have been received for the proposed plant, to cost about $35,000. The by-law has been passed by the ratepayers, but no action can be taken for about two months. Engr., Roderick J. Parke, Toronto, Ont.

NEW COMPANIES.—Trenton-Washington Light Co., Ribsam Bldg., Trenton, N. J.; $100,000, with $1,000 paid in; to introduce in Trenton a system of lighting and heating; E. Raymond Perrine, New York; Forman H. Gordon, Windsor, N. J.; Irvin Aaron, Doylestown, Pa.; George E. Fell, Levi P. Updike, Trenton.

Carteret Electric Light & Power Co., Carteret, N. J., $20,000; John A. Quinn, Jr., Carteret; Wm. J. Landsley, Elizabeth, N. J.; Walter K. Whitaker, Sewaren, N. J.

Westerville Electric Co., Westerville, O.; $9,000; C. L. Bennett, R. B. Adams, H. E. Chinn, E. S. Aldrich, Elec. Engr., Wesley Block, Columbus, O.

Winona Ice, Electric Light & Water Co., Winona, Miss.; $100,000; E. R. Blackston, D. B. Turner, C. S. Harris.

Consolidated Incandescent Light Co., 1 Exchange Place, Jersey City, N. J.; $50,000, with $5,000 paid in; Thos. F. Bedle, Pierre F. Cook, Francis H. McGee, all of Jersey City.

Mill Point Power Co., Amsterdam, N. Y.; $80,000; to furnish light, heat and power to Amsterdam, Charlestown, Florida, Glen, Mohawk, Fonda, Fultonville, Johnstown, Perth, Mayfield and Broadalbin; John Marsh, San Francisco, Cal.; John Begley, Gloversville, N. Y.; H. J. Brady, Cooperstown, N. Y.; P. T. Brady, R. E. Drake, Syracuse.

Clarksdale Water & Light Co., Clarksdale, Miss.; $35,000; Walter Clark, E. L. Anderson, W. P. Holland, P. H. Porter, W. D. Cutrer.

Hughesville Electric Co., Hughesville, Pa.; $1,000, with $100 paid in; J. Sellers Kite, 523 North 40th St., Philadelphia.

Ironclad Resistance Co., Westfield, N. J.; $25,000; to furnish this city with electric light, power and heat. Arthur W. Berresford, Aug. P. Manning, Horace M. Williams.

Citizens' Electric Co., Reading, Pa.; to supply Lebanon and a number of small cities with electric lights.

Kalamazoo Valley Electric Co., Kalamazoo, Mich.; $100,000; to develop the water power of Kalamazoo, Otsego, Plainwell, Allegan and Battle Creek, for lighting, heating and power purposes, and also for electric railways; W. A. Foote, J. B. Foote, C. H. Frisbee, Jackson, Mich.; H. C. Hoagland, Kalamazoo; S. S. Hulbert, Battle Creek, Mich.

Chicago Suburban Water & Light Co., Chicago; $600,000; to deal in gas and electricity; Charles F. Voge, J. M. Gibson, Charles B. Wood.

Lancaster & Jefferson Eectric Light Co., Lancaster, N. H.; $36,000.

BRIDGES.

EASTHAMPTON, MASS.—Bids are asked for the construction of the Ferry St. bridge abutments and dam. Engr., E. C. Davis, Northampton, Mass.

WESTFIELD, MASS.—Bids are asked until Oct. 3 for constructing a bridge, 115 ft. long and 32 ft. wide, as stated in our advertising columns. O. A. Granger, Chn. Com.; O. E. Parks, Town Engr.

CUYLERVILLE, N. Y.—John Vickers, Geneseo, N. Y., has been awarded a contract at $4,379 for the abutment for a bridge.

SCHENECTADY, N. Y.—A petition has been presented to the council to have a viaduct constructed across Vale Cemetery to connect Prospect and Mynderse Sts.

BRADFORD, PA.—Bids are asked until 2 p. m., Sept. 24, for constructing an iron bridge and stone abutments. S. D. Kelly, Jas. McKittrich, Supervisors, St. James Hotel, Bradford.

CARLISLE, PA.—J. O. Huntington, Clk. Com., informs us that the contract for the iron superstructure of the bridge at Bishops' Ford has been let to the Wrought Iron Bridge Co., Canton, O. The substructure has been completed.

WILMINGTON, DEL.—The Delaware Construction Co. has a contract to construct two bridges, 78 and 410 ft. long, for the Wilmington & Brandywine Springs Ry. Co.

PADUCAH, KY.—Bids are asked until 2 p. m., Sept. 22, for repairing the bridge across Island Creek, on Bridge St. J. M. Lang, Mayor.

CINCINNATI, O.—Bids are asked until Oct. 8 for certain bridge work. E. L. Lewis, County Audr.

CINCINNATI, O.—Bids are asked until Oct. 15 for masonry, excavating, fill, etc., for a bridge over the canal and for woodwork on the suspension bridge over Whitewater River. E. L. Lewis, County Audr.——Bids are asked until Oct. 29 for constructing the superstructure and masonry substructure for a railway viaduct over Lick Run. Chas. G. Roth, Clk. Bd. Water-Works Trustees.

CLEVELAND, O.—The county commissioners have awarded contracts as follows: Superstructure five-mile lock bridge, in Newburg township, to Variety Iron Works, at $8,470; substructure for the same bridge, to E. S. & C. E. Doolittle, at an estimated cost of $5,882; substructure of the South Park bridge, in Independence Township, to E. S. & C. E. Doolittle, at an estimated cost of $3,800; superstructure for the same bridge, to the King Bridge Co. at $5,950.

HAMILTON, O.—The contract for the 406-ft. span bridge over the Miami River, on which bids were received by the county commissioners, Aug. 22, was let on Sept. 13 to Peter F. Schwab, at $61,000. The bridge will have a 24-ft. roadway, paved with asphalt or brick, and two 6-foot sidewalks.

NEW BALTIMORE, O.—Bids are asked until Oct. 8 for constructing a bridge across the Great Miami River. E. L. Lewis, County Audr., Cincinnati.

BEDFORD, IND.—F. W. Ranno, Asst. Engr., Southern Indiana Ry. Co., Bedford, writes us that a contract has been made with the Carnegie Steel Co., Ltd., Pittsburg, Pa., for constructing girders over Salt Creek, five miles west of Bedford, and Indian Creek, 16 miles west of Bedford. The Salt Creek bridge will consist of one 100-ft. span deck plate lattice girder, and two 50-ft. span deck plate girders. Indian Creek bridge to consist of one 100-ft. span deck plate lattice girder and two 56-ft. span deck plate girders. The piers and abutments are now under way and the bridges are to be put in place during October.

EVANSVILLE, IND.—A petition has been presented to the county commissioners for the construction of a bridge over Pigeon Creek.

EAU CLAIRE, WIS.—Bids are asked until Sept. 28 for constructing a bridge of four spans, 144 ft. each, across the Chippewa River, between Kelsey and Bridge Sts., and for removing the old structure. C. A. Alderman, Cy. Engr.; T. P. Cochrane, Clk.

OSHKOSH, WIS.—The following bids were received Sept. 6 for a bridge over Sawyer Creek:

	Design A.	Design B.
Wisconsin Bridge & Iron Co.	$6,194*	$9,984
Wisconsin Bridge & Iron Co.	2,380**	3,800
Milwaukee Bridge & Iron Works	6,400*	7,200
C. L. Strobel, Chicago, Ill.	6,450*	7,700
Meyer & Dombke	2,600**	3,300
Carl Schneider	2,400**	3,200

* Superstructure. ** Substructure.

The Wisconsin Bridge & Iron Co. and Carl Schneider bids were the lowest for design B, which was selected by the council; design A was for a fixed bridge composed of three 67-ft. plate girder through spans. Design B was for a through plate girder draw span of 129 ft., and one 67-ft. plate girder through span.

WAVERLY, IA.—Bids are asked until Oct. 3 for furnishing the material and constructing a steel bridge of two spans, 124 and 123 ft. each, and 22 ft. wide, over the Cedar River. Wm. Weidittschka, County Audr.

BRAINERD, MINN.—A contract was awarded to L. H. Johnson, Minneapolis, Minn., Sept. 9, at $7,825, for constructing a steel bridge. F. A. Farra, Cy. Clk.

MINNEAPOLIS, MINN.—The South Minneapolis Commercial Club recommends the construction of a bridge over the river from Cedar Ave. to 10th Ave. An effort will be made to secure an appropriation from the legislature. W. E. Brown, Pres.

OMAHA, NEB.—Local papers state that the 16th St. viaduct will be of steel and iron, 52 ft. wide on masonry piers, to cost about $150,000.

TOPEKA, KAN.—Bids are asked until Oct. 3 for constructing a pile bridge, to cost about $1,250. W. H. Barnes, Cy. Engr., 8 City Bldg.

TOPEKA, KAN.—Bids will soon be asked by the county commissioners for the construction of two bridges, 40 and 80 ft. long, between Shawnee and Douglas counties.

JEROME, ARIZ.—Reports state that the railroad bridge between Jerome and Jerome Junction has been burned. The structure was 1,240 ft. long.

LEWISTON, IDAHO.—The construction of the Snake River bridge will commence Oct. 1, according to reports. The structure will be 1,685 ft. long, in 12 spans, with a cantilever span of 374 ft., and will be 56 ft. above high water; estimated cost $80,000.

LATAH, WASH.—The county surveyor, Spokane, Wash., is preparing plans for a bridge over Hangman Creek.

ASTORIA, ORE.—Bids are asked until 12 m., Sept. 23, for constructing a wharf, warehouse and trestle approach at the station of the Astoria & Columbia River R. R. Co. Address the Northwest Construction Co.

PLACERVILLE, CAL.—Bids are asked by the county clerk for a bridge at Bechers Crossing, over the Cosumnes River.

REDWOOD CITY, CAL.—Bids are asked until Oct. 3 for constructing a bridge over Bear Gulch Creek, near Woodside. J. F. Johnston, Clk. Bd. Supervisors.

PARKENHAM, ONT.—Bids are asked until Sept. 26 for constructing a wooden bridge of two spans 41 ft. each and 16 ft. wide; estimated cost, $1,000. A. Murphy, Town Clk., Antrim, Ont.

ROUMANIA, EUROPE.—Reports state that the government has appropriated $5,000,000 for the construction of bridges.

BUILDINGS.

BATH, ME.—Contracts will soon be let, according to reports, for the erection of a new Methodist Church building, to cost about 300 persons.

NORTHAMPTON, MASS.—The general contract for erecting a new library building for Smith College is reported to have been let to the Assurance Construction Co., 32 Broadway, New York, to cost about $60,000. Archs., York & Sawyer, 156 5th Ave., New York.

PLUM BEACH, R. I.—The following bids were received by Lt.-Col. D. P. Heap, U. S. Engr., Tompkinsville (S. I.), N. Y., Sept. 15, for erecting the metal work and superstructure of the Plum Beach light station, R. I., as advertised in Engineering News:

Toomey Brothers & Co., Guilford, Conn.	$8,490
" " " reduced bid by letter	7,833
W. H. Flaherty, 7 South St., New York	9,375
Frank C. Arthur, 805 N. 26th St., Philadelphia, Pa.	11,270
Houston Construction Co., Girard Bldg., Phila.	12,893
Ambrose G. Dudley, 100 Broadway, New York	14,775
L. A. Guerber, 171 Broadway, New York	19,500
Wilkins & Kuemmerle, Betz Bldg., Philadelphia	20,500

WESTERLY, R. I.—The Berlin Iron Bridge Co., East Berlin, Conn., has been awarded the contract for furnishing the steel work for the Memorial Hall being erected at Westerly. This building is to be fireproof throughout, with steel floor beams and columns supporting the floor structure, and steel trusses and beams for the roof.

DEPEW, N. Y.—We are informed that Hopkins & Roberts, 245 Broadway, New York, have been awarded the contract for erecting in Depew a 4-story colonial hotel building, 120 × 56 ft., to contain 60 bedrooms. The general contract includes the steam heating, wiring and plumbing. Bids are now being received for the refrigerating plant, electric fixtures, laundry machinery, elevator and furniture. Arch., George Palliser, 32 Park Place, New York.

KINGS PARK (L. I.), N. Y.—Bids are asked until Sept. 26 for the installation of an engine and generator at Kings Park for the Long Island State Hospital. Truman J. Backus, Pres. Bd. of Mgrs., Arbuckle Bldg., Brooklyn, N. Y.; Arch., I. G. Perry, Albany, N. Y.

NEW YORK, N. Y.—Plans are being perfected for a new brick and stone college building to be erected at 1st Ave. and 27th and 28th Sts. for the Cornell Medical College, at a cost of about $500,000. Archs., McKim, Mead & White, 160 5th Ave.——Contracts will probably be let soon for erecting a church building at 66th St. and Central Park West for the First Church of Christ. Archs., Carrere & Hastings, 28 East 41st St.——Press reports state that the Hammerstein Amusement Co., of which William Hammerstein is president, will soon erect an amusement hall at 7th Ave. and 42d St., to cost about $250,000. Arch., John B. McElfatrick.——Plans have been filed by Harris Mayer, 200 East 80th St., for two 6-story brick flat and store buildings, at 107 to 111 Ludlow St., to cost $50,000. Archs., Horenburger & Straub, 122 Bowery; by John P. Leo, Owner and Arch., 143 West 125th St., for two 5-story brick flat buildings, on the boulevard, near 148th St., to cost $50,000; by Louis Wirth, 914 Prospect Ave., for three 5-story brick flat buildings, on 3d Ave., near Woodycrest Ave., to cost $80,000. Arch., John Hauser, 1441 3d Ave.; by J. E. Nichols, 135 West 58th St., for a 5-story brick dwelling house, on 79th St., near 5th Ave., to cost $150,-

000. Arch., C. P. H. Gilbert, 1123 Broadway; by Henry Rothschild, 104 East 81st St., for four 5-story brick tenement and store buildings, at 117th St. and 5th Ave., to cost $61,000. Arch., G. F. Pelham, 503 5th Ave.; by Nathan E. Clark, 126 East 83d St., for two 6-story brick flat buildings, at 87th St. and Madison Ave., to cost $155,000. Arch., G. F. Pelham; by John Schnoering, 693 West End Ave., for two 7-story brick flat and store buildings, at 129th St. and 5th Ave., to cost $160,000. Archs., Kurtzer & Rohl, 9 7th St.

NORTH TARRYTOWN, N. Y.—David Silver, Village Clk., informs us that the proposition to erect a $20,000 addition to the present school building was voted down at the election held on Sept. 15, the apparent preference of the voters being for an entirely new structure. The matter was indefinitely postponed.

TROY, N. Y.—Bids are asked until Oct. 4 for the erection of a new high school building in this city. E. Ogden Ross, Secy. Contracting Bd.

JERSEY CITY, N. J.—Bids are asked by the police commissioners until Sept. 27, for erecting an annex to the female ward, including heating plant, in City Hospital, at Baldwin Ave. and Montgomery St. Clk., G. P. Robinson, Cooper Place and Gregory St.

PITTSBURG, PA.—Bids are asked until Sept. 24 for the erection of an engine house at Filbert and Elmer Sts. —Plans have been prepared for an apartment house to cost about $100,000. Archs., Topp & Craig, Bissell Bldg.

WILMINGTON, DEL.—Plans have been accepted for the new high school building to be erected in this city, at a cost of about $85,000. Arch., George H. Pierce, 1133 Broadway, New York.

BALTIMORE, MD.—The Massachusetts Building Co. was granted a permit, Sept. 13, to erect a 12-story brick and stone office building, at Charles and Fayette Sts., to cost $350,000.

WASHINGTON, D. C.—Plans are being prepared, according to reports, for the erection of a 6-story fireproof addition to the apartment house at 14th and Binney Sts., owned by Albert Carry; estimated cost, $75,000. Arch., C. A. Didden, 709 13th St., N. W.——Plans have been prepared by A. P. Clark, Jr., 605 F St., N. W., for a 6-story apartment house, 48 × 170 ft., for C. H. Allender.

WASHINGTON, D. C.—A fire in this city, Sept. 19, destroyed the 7-story brick and steel building at 12th and F. Sts., occupied by Robinson, Chery & Co., clothiers. Estimated loss, $175,000.

ATLANTA, GA.—A. L. Kautz, Clk. of County Comrs., Atlanta, informs us that Major Grant Wilkins, of Atlanta, has been employed to prepare plans and specifications for the new Fulton county court house, to cost about $100,000, and that when they have been accepted that bids will be called for.

BIRMINGHAM, ALA.—The commissioners of Jefferson county have decided to erect a new court house annex at 21st St. and Third Alley, at a cost of about $25,000.

WADLEY, GA.—Bids are asked until Oct. 1 for the purchase of $7 000 of town bonds for building a school house. Mayor, S. C. Evans.

LAKE CHARLES, LA.—The Diebold Safe & Lock Co., represented by H. M. White, of Houston, Tex., has received the contract for erecting a new jail for Calcasieu parish, at $14,650.

LOUISVILLE, KY.—We are informed that the Henry Vogt Machine Co., of Louisville, has been awarded the contract for building a new steel grain elevator in this city for Callahan & Sons. Bids will be received in October for furnishing the equipment, estimated to cost $9,000, including one 30 and one 25-HP. motor, about 4,000 ft. of screw conveyors and other steel work. Arch., Henry Wolthers, Columbia Bldg., Louisville.

TOLEDO, O.—H. G. Conrad has the contract for erecting the four new engine houses in this city, at $26,177.——Reports state that the Lake Shore R. R. Co. contemplates the erection of a new station in this city.

DETROIT, MICH.—Bids are asked until Sept. 24 for building a 4-story stone and brick market and memorial building for the Grand Army on the Cass Market site, bounded by Grand River, Adams and Cass Aves.; deposit, $2,000. D. W. H. Moreland, Pres. Bd. of Pub. Wks.

CHICAGO, ILL.—Plans have been prepared, according to reports, for a 3-story apartment building to be erected at Jackson Ave. and 58th St. for P. A. George, 524 Reaper Block; to cost about $45,000. Arch., Louis Martens, 167 Dearborn St.——S. S. Beaman, Pullman Bldg., is said to have completed plans for the proposed Coliseum building to be erected at 24th and 25th Sts.; estimated cost $1,000,000. Geo. F. Hurlbert, 12 Sherman St., is said to be the promoter.——The Oliver Sollitt Co., 105 Hartford Bldg., has been awarded the contract for erecting a wholesale store building at 161 Market St., for John Monk, to cost $60,000. Arch., H. B. Wheelock, 226 La Salle St.

MOUNT CARMEL, ILL.—Bids are asked until Oct. 3 for erecting a new Methodist church building; deposit, $500. Treas., R. K. Steer; Archs., Charles Henry & Son, Akron, O.

FRAZEE, MINN.—Bids are asked by Baer Bros., of Frazee, until Sept. 26, for a steam heating plant for a business block in this city; bond, $1,000. Arch., J. A. O'Shea, Fargo, N. Dak.

HARRIS, MINN.—Bids are asked until Oct. 15 for the erection of a school building, with separate bids for heating and ventilation, at Harris. Treas., P. H. Stolberg; Archs., Omeyer & Thori, 400 Chamber of Commerce, St. Paul, Minn.

HELENA, MONT.—The Montana Building Co. is stated to have been awarded the contract for erecting the new capitol building in this city, at $289,891.

OMAHA, NEB.—Bids are being received, according to reports, for the erection of the new station to be erected in this city by the Union Pacific Ry. Co. Archs., Frost & Granger, Chicago, Ill.

NATIONAL MILITARY HOME, KAN.—Bids are asked until Sept. 30 for erecting a cottage for women nurses at western branch of National Home D. V. S.

ST. LOUIS, MO.—Bids are asked until Nov. 1 for the erection of the Jackson, St. school building; deposit, $1,000. Wm. B. Ittner, Comr. of School Bldgs.

BISBEE, N. DAK.—Bids are asked by the school board until Oct. 8 for erecting a 4-room, 2-story frame school building at Bisbee. Clk., William Bursinger; Archs., Omeyer & Thori, St. Paul, Minn.

VENTURA, CAL.—Reports state that plans have been prepared for a new building to be erected at Main and California Sts., at a cost of about $40,000. Archs., Bradbeer & Russell, of Los Angeles.

ST. THOMAS, ONT.—J. H. McKnight & Co., Toronto, Ont., have been awarded the contract for improving the court house of Elgin county, at $33,990. The plumbing will be done by Chas. T. Bull, at $1,047, and the metal work by Stacey & Co., at $1,231, both of St. Thomas.

WATER-WORKS.

HALLOWELL, ME.—Chas. N. Taylor, Natick, Mass., has completed a contract for laying six miles of 6, 8, 12 and 14-in. cast-iron water pipe in this city. He has also just completed building a 1,000,000-gallon distributing reservoir. Mr. Taylor has been awarded the contract for building a 3,500,000-gallon storage reservoir for the works. These reservoirs are clay-lined and paved with granite blocks. Mr. Taylor has also the contract for furnishing the material and for laying the pipe.

WATERVILLE, ME.—Harvey D. Eaton, Cy. Solicitor, writes us that the bill being considered to unite Benson, Fairfield, Winslow and Waterville, to be known as the Kennebec Water district, is only a proposed municipalization of the existing works.

AMSTERDAM, N. Y.—The proposed improvements to the water-works will be as follows: A new 24-in. iron conduit two miles long, from end of Hanns conduit to distributing reservoir; a new high service reservoir, a 15-in. vitrified conduit, from end of McQueen conduit to reservoir, one mile long; a new 36-in. iron diverting conduit through reservoir of Bunn Creek, a 3-acre filter bed with Babcock conduits, at the end of Hanns Creek conduit, etc. The contract for the pipe has been let to the Anniston Pipe & Foundry Co., Anniston, Ala. The work is in charge of Stephen E. Babcock, Consult. Engr., Little Falls, N. Y.

BAINBRIDGE, N.Y.—This place voted, Sept. 10, to issue $22,000 in bonds for municipal works.

BUFFALO, N. Y.—Bids are asked until Sept. 29 for laying a 20-in. cast-iron water pipe across the Buffalo River, at Ohio St.; for furnishing 1,000 extension pieces for hydrants, etc. R. G. Parsons, Secy. Bd. Pub. Wks.

DEPEW, N.Y.—The question of securing its own water supply from Lake Erie is being considered by the city. Henry W. Box, may be addressed.

IRVINGTON, N. Y.—An election will soon be held to vote on the question of extending the works, at a cost of about $50,000.

MASSENA, N.Y.—Watson B. Berry, Pres. Norwood Water Co., writes us that the construction of the proposed works will not begin until early spring. The plans and specifications will be prepared this fall, and contracts will be let during the winter. Capital stock, $15,000. Secy. and Treas., Philip J. Barry.

GLOUCESTER CITY, N.J.—The council has postponed considering the bids received Sept. 15 for furnishing a water-works pump until Sept. 29.

JERSEY CITY, N. J.—Bids are asked until Sept. 26 for furnishing and setting in place three meters at or near the Belleville pumping station. Clk. Water Comrs., Geo. T. Bouton.

BLUE RIDGE SUMMIT, PA.—The proposed works for this place will be constructed by a company. D. G. Adelsberger, 722 Pennsylvania Ave., Baltimore, Md., is preparing plans and estimates. There will be over six miles of 4 to 10-in. pipe, a reservoir on a hill 560 ft. high above source of supply, which will be springs.

KNOXVILLE, PA.—Preliminary work is in progress for complete works to be constructed this fall; estimated cost, $12,000. Engr., Howard Murphy, 326 Walnut St., Philadelphia, Pa.; present address, Knoxville, Pa.

YORK, PA.—Local papers state that the York Water Co. has awarded a contract for furnishing a 4 000,000-gallon filtration plant to the New York Filter Co., New York.

CENTREVILLE, MD.—The town commissioners are considering the question of securing a better water supply. Pres. Comrs., Chas. M. West.

DENTON, MD.—Harry A. Roe writes us that nothing will be done regarding the construction of works, reported in our issue of last week.

POCOMOKE CITY, MD.—Van D. Hitesmith, Knoxville, Tenn., has been awarded the contract, at $19,500, for furnishing the materials, excepting the water pipe, and for building the proposed works and sewerage system. The contract for the cast-iron water pipe has been let to M. J. Drummond & Co., New York, at $6,726. The well for the water supply is being bored by J. H. K. Shannahan.

ORANGEBURG, S. C.—An election will be held Sept. 27 to vote on the question of issuing $40,000 in bonds for works and an electric plant.

COLUMBUS, GA.—L. H. Chappell, Mayor, writes us that no definite steps have yet been taken in regard to a new water supply. An investigation is being made and it is expected to bore for water soon.

GREENSBORO, GA.—Bids are asked until Oct. 6 for furnishing the materials and for building the proposed works. The plant will consist of 21,000 ft. of 4 to 10-in. cast-iron water pipe, 12,000 lbs. of special castings, 32 hydrants, 22 valve boxes, 22 4 to 10-in. valves, a standpipe, 12×120 ft., a 500,000-gallon settling basin, etc. Engr., E. H. Davis, Eatonton, Ga.; Mayor, J. B. Williams; Clk., E. W. Copelan.

McRAE, GA.—The council has let the contract for boring an artesian well for a water supply, according to reports.

ROME, GA.—J. W. Rowersville, Chn. Com., writes us that this city has muddy water at times of much rain. The committee appointed by the council to select the best method has decided upon filtration beds, to be placed at the outlet end of the present settling basin.

MOBILE, ALA.—M. T. Lewman & Co., Louisville, Ky., have been awarded the contract at $460 202 for constructing the proposed works. Supervising Engr., T. W. Nicol, Mobile; Mayor, J. C. Bush.

TUSCUMBIA, ALA.—Press reports state as follows: The light and water company of this city, which holds a 20-year franchise, has been notified that unless it gives to the city water and light within a short time, according to the terms of the agreement with the council, it will be requested to surrender the franchise. Another company is anxious to establish works and an electric plant.

FAYETTEVILLE, TENN.—An election will be held Oct. 15 to vote on the question of issuing $30,000 in bonds for the proposed works. Clk., R. A. Conger; Engrs., Guild & Co., Chattanooga, Tenn.

NASHVILLE, TENN.—Bids are asked until Sept. 27 for furnishing about 250 tons of 6-in. cast-iron water pipe, hydrants, valves, etc.; estimated cost, $5,000. Supt. Bd. Pub. Wks., Geo. Reyer.

CINCINNATI, O.—Bids are asked until Sept. 29 for laying water pipe in a number of streets. Pres., Bd. Cy. Affairs, A. B. Rattermann.

NEW RICHMOND, O.—E. Y. Donham, Mayor, writes us that at the election, Sept. 12, this place voted to issue $30,000 in bonds for works and a light plant. Engr., E. F. Layman, 32 East 3d St., Cincinnati, O.

TROTWOOD, O.—Dr. W. C. Mendenhall, Secy. Trotwood Water Supply Co., writes us that the contract for building the works has not been let. The specifications are not quite prepared. There will be required a pneumatic or air-tight tank, a well about 30 ft. deep, with a capacity of about 50 to 60 bbls. an hour for fire protection and domestic use, about 3,800 ft. of 3 and 4-in. pipe, 12 to 15 hydrants, a gasoline engine, etc. The contracts will be let after asking for bids.

HENRYVILLE, IND.—We are informed that no steps have been taken toward building works, and that there probably will not be for the present.

KEWANNA, IND.—An election was held in this city, Sept. 12, to vote on the question of building works.

EATON RAPIDS, MICH.—Bids are asked until Oct. 4 for furnishing six miles of water pipe, hydrants, special castings, etc., as stated in our advertising columns. Engrs., Alvord & Shields, The Rookery, Chicago; Secy. Water-Works and Lighting Bd., Jas. H. Gallery.

PAW PAW, MICH.—The following bids were received Aug. 17 for furnishing the material and for constructing the works, the bids for pipe, hydrants, specials, etc., being given under Contract Prices: Engr., Geo. S. Pierson, Kalamazoo, Mich.: Pumps,—(1) being for two single pumps, and (2) for one single pump; (3) for two compound pumps and (4) for one compound pump; (5) for two boilers, a heater, feed pump, etc.; buildings, (6) for pumping station and (7) for chimney; water tower, (8) for brick tower and (9) for steel tower: Jos. M. Pearl, (1) $1,900, (2) $900, (5) $2,400, (6) $800, (7) $700; (8) $4,000, (9) $4,500: T. C. Brooks & Sons, Jackson, Mich., (1) $1,300, (5) $1,100, (6) $692, (7) $555, (8) $4,076; Kalamazoo Supply & Construction Co., Kalamazoo, Mich., (1) $1,300, (2) $850, (5) $825, (6) $800, (7) $700, (8) $4,000; M. Walker, (2) $2,765, including pumps and boilers; Laidlaw-Dunn-Gordon Co., Cincinnati, (1) $1,500, (2) $1,025, (3) $1,800, (4) $1,300, (5) $1,200: Snider-Hughes Co., Cleveland, O., (1) $1,375, (2) $900, (3) $1,775, (4) $1,125, (5) $1,450: Stillwell-Bierce & Smith Vaile Co., Dayton, O., (1) $1,150, (2) $700; Goulds Mfg. Co., Seneca Falls, N. Y., (1) $3,632, (2) $3,690—bids include gasoline engines; Geo. Rickman & Sons, (5) $1,019, (6) $692, (7) $555, (8) $1,476, brick work only; Jackson & Church, Saginaw, Mich., (5) $1,443, (8) $3,923; Muskegon Boiler Works, Muskegon, Mich., (5) $1,400, (8) $3,775, (9) $3,275; Biggerstaff & Atkins, (6) $748, (7) $655; Alex. McIntosh, Muskegon, (6) $700, (7) $600; Chicago Bridge & Iron Works, Chicago, Ill., (9) $4,311; Warren City Boiler Works, (9) $3,470; Abendroth & Root Mfg. Co., New York, spiral riveted steel pipe, $5,987; Fairbanks, Morse & Co., Chicago, two 28-HP. gasoline engines, $2,225.

TRENTON, MICH.—It is stated that the Trenton water board will build a new chimney 70 ft. high and will purchase a new engine capable of pumping 750,000 gallons of water daily.

CANTON, ILL.—The board of local improvements has voted to build a new reservoir, to cost about $3,800.

CHICAGO, ILL.—L. E. McGann, Comr. Pub. Wks., it is stated, will urge the council to rebuild the Chicago Ave. pumping station, at a cost of about $500,000.

SOUTH CHICAGO, ILL.—The Troy Laundry Machinery Co. is building a new soap factory at 96th and Erie Sts., South Chicago, and has given L. Wilson, 53 Dearborn St., Chicago, a contract for an artesian well for the water supply of the factory.

CARSON, IA.—The question of building works is again being considered, according to reports.

CLARE, IA.—This town is reported to have voted to build works to cost about $5,000.

ELMORE, MINN.—This place voted Sept. 10, by a majority of 17, to build works. Population, 1,200. Mayor, M. Masmeressen.

BERESFORD, S. DAK.—Bids are asked until Oct. 1 for furnishing the materials and for building the proposed work, to cost about $12,000. Plans and specifications may be seen at the First National Bank, Chicago, Ill. Mayor, August Frieberg.

PLANKINTON, S. DAK.—Bids are asked until Oct. 3 for sinking a deep well for a water supply for the poor farm, according to reports. County Audr., S. G. Kinyon.

ROSEBUD, S. DAK.—Bids are asked by Chas. E. McChesney, U. S. Indian Agent, for furnishing windmills, tanks, etc., for the water-works at this agency.

SIOUX FALLS, S. DAK.—The council on Sept. 14 decided to submit to the voters at the election in November the proposition of issuing bonds for municipal works. It is said that the proposition will be carried almost unanimously. The works will cost, complete, about $130,102. Population, 12,000. Engr., W. R. Coats, Ypsilanti, Mich., and Sioux Falls; Mayor, B. H. Lien.

WAGONER, IND. TER.—Bids are asked until Oct. 15 for constructing the proposed works, as stated in our advertising columns, and as described in our issue of last week. Engr., J. S. Thatcher, Cockrell Bldg., Dallas, Tex.; Mgr. Wagoner Water-Works Co., W. I. Nicholson.

SEATTLE, WASH.—Bids are asked until Nov. 15 for constructing the proposed Cedar River gravity water supply addition, etc., for water-works, as described in our advertising columns; estimated cost, $1,200,000. Secy. Bd. Pub. Wks., Frank Oleson.

ANTELOPE, ORE.—A. D. Sheldon is reported to have been awarded the contract for building the proposed gravity works, at about $5,000.

CONDON, ORE.—This place has voted to issue $3,000 in bonds for the proposed works.

LAKEPORT, CAL.—The board of trustees is arranging for the construction of the proposed works, to cost about $17,000. Town Clk., H. V. Keeling.

SAUSALITO, CAL.—M. M. O'Shaughnessy, Crocker Bldg., San Francisco, is preparing a report on the water supply of this place. Two small companies supply the town and much dissatisfaction exists. After the report has been submitted the trustees will consider the next step. Asst. Engr., J. S. Molony, San Francisco.

TUCSON, ARIZ.—Sylvester Watts is making tests for the proposed new water supply; estimated cost, $100,000.

RICHFIELD, UTAH.—It is reported that arrangements are being made for works. Councilmen L. H. Outzen and W. H. Seegmiller may be addressed.

WATERLOO, ONT.—Wm. Snider writes us that at present the town is supplied with water from the Berlin works, the contract for which expires next year. A committee has been appointed to investigate the question of putting in a pumping station pipes, etc. A water supply could be secured from artesian wells, it is thought, in sufficient quantity.

WINNIPEG, MAN.—Local papers state that the Winnipeg Water-Works Co. has offered to sell its plant to the city for about $275,000. Mayor Andrews may be addressed.

BELEM, PARA, BRAZIL.—Bids are asked until Nov. 10 for the transfer by the government of the state of Para of the exclusive right for 60 years (to be extended under certain conditions for a further term of 10 years) to supply Belem, the capital, with potable water. The transfer will include certain lands, machinery, plant and other material actually in use in the present water-works or in stock. Further information may be had on application to the Brazilian Consulates and Vice-Consulates at London, England, at Berlin, Germany, and at Washington, D. C., and 22 State St., New York, N. Y.

IRRIGATION.

BEAUMONT, TEX.—The Jefferson County Irrigation Co. has awarded the contract for building an irrigation canal at Pine Island to E. A. Hayne.

SILVER CLIFF, COLO.—Surveys are being made for the West Mountain Valley reservoir to furnish water for the sugar belt raisers of Eastern Colorado and Western Kansas. The dam is to be a half-mile wide and 800 ft. thick at the mouth of Grape Creek canon.

LARAMIE, WYO.—Reports state that the ranchmen of Prairie Dog Creek and tributary streams, propose building a reservoir at the Piney Lakes, near Cloud Peak, for irrigation purposes; estimated cost, $10,000.

RIVERSIDE, CAL.—The people along the Jurupa & West Riverside Canal are planning to abandon their rights in the canal and to construct a pipe system, consisting of about eight miles of 12-in. steel pipe, to cost about $50,000.

NEW COMPANIES.—Gale Ditch Co., Echo, Ore.; $5,000; to construct flumes and ditches for irrigation; Austin Gale, Maggie Gale and May O'Garra.

Glendora-Azusa Water Co., Los Angeles, Cal.; to construct water systems, etc., to supply cities and towns in the Upper San Gabriel Valley with water for irrigation, power, etc.; D. A. Colae, J. H. Odell, E. O. Kennard, Glendora; W. R. Powell, W. C. Ormiston, C. G. Matthews, Azusa.

SEWERAGE

CONCORD, MASS.—Bids are asked until Sept. 24 for furnishing the materials and for grading and preparing the sewage filtration beds in this town. Chn. Comrs., Wm. Wheeler; Engr., Leonard Metcalf, 89 State St., Boston.

SPRINGFIELD, MASS.—Bids are asked until Sept. 26 for constructing 735 ft. of 51-in. and 33 ft. of 60-in. brick sewers. Cy. Engr., C. M. Slocum; Supt of Sts., Wm. L. Dickinson.

COHOES, N.Y.—Bids are asked by the public improvement commission until Oct. 12 for constructing certain sewers.

LYONS, N.Y.—This city has voted to build a sewer in Jackson St., at a cost of $1,000.

NEWBURG, N.Y.—Alderman David Brown writes us that it is proposed to build seven blocks of 4-ft. brick sewer at a cost of about $27,000; average cut, 12. Cy. Engr., Chas. Caldwell.

ELIZABETH, N. J.—Bids are asked until Oct. 1 for constructing about 3,200 ft. of 18 to 12-in. pipe sewers, 26 manholes etc. St. Comr., N. K. Thompson.

JERSEY CITY, N. J.—Bids are asked until Sept. 26 for constructing 400 ft. of 18-in. pipe sewer, etc. Clk. Bd. St. and Water Comrs., Geo. T. Bouton.

NEWARK, N. J.—Bids are asked until 3.30 p. m. Sept. 22 for constructing about 39,000 ft. of brick and pipe sewers. Gen. Supt. of Works, M. F. McLaughlin.

BRADFORD, PA.—Bids are asked until Sept. 26 for constructing a sewer in Washington St. Cy. Clk., Jas. A. Lindsey.

CHESTER, PA.—C. M. Black, Mayor, has approved the ordinance for a sewer in Fourth St.

OAKMONT, PA.—John Dell and Diulles & Bro., Braddock, Pa., have been awarded the contract for building a system at $36,500.

CHESAPEAKE CITY, MD.—The council is reported to have voted to build a system.

POCOMOKE CITY, MD.—Van D. Hitesmith, Knoxville, Tenn., has been awarded the contract for building the system and water-works at $19,500.

MOBILE, ALA.—Bids are asked until Oct. 17 for constructing a system, as stated in our advertising columns. Mayor, J. C. Bush; Supervising Engr., T. W. Nicol, Mobile.

EAST CLEVELAND, O.—Bids are asked until Oct. 10 for constructing sewers in a number of streets, and also for a sewage disposal plant; three bonds of $1,500 required. Engr., Rice Engineering Co., 545 Society for Savings Bldg., Cleveland; Clk., H. B. Chapman.

MARIETTA, O.—Bids are asked until Oct. 15 for constructing sewers in the Fifth district. Cy. Clk., Carl Becker.

MINGO JUNCTION, O.—Bids are asked until Sept. 27 for constructing a sewer in Jumbo Run. Clk., E. E. Pelugh.

NILES, O.—The council will probably ask for bids in October for building a sewer about a mile long, according to reports. Cy. Engr., Wm. Wilson.

DELRAY, MICH.—Jas. Grant, Detroit, has been awarded the contract for laying 8,475 ft. of sewer pipe at about $6,000.

DURAND, MICH.—Wm. H. Putnam, Village Clk., writes us that the council voted Sept. 12 not to take action on the proposed 24 and 20-in. pipe sewer until the spring. Engr., H. A. Riggs, The Nasby, Toledo, O.

CHICAGO, ILL.—Bids are asked until Sept. 27 for constructing pipe sewers in several streets. Pres. Bd. Local Improvements, L. E. McGann.

GALESBURG, ILL.—It is proposed to build a trunk sewer from the Knoxville Road to Cedar Fork Creek, at a cost of about $53,000. City Engineer Blanding may be addressed.

MONMOUTH, ILL.—J. E. Miller, Cy. Engr., writes us that contracts for building the following sewers will be in after adoption by the council Oct. 1: About 1,550 ft. of 12-in. and 1,920 ft. of 15-in. of pipe, and 2,100 ft. of 42-in. and 860 ft. of 24-in. brick sewers; estimated cost, $11,475.

DECORAH, IA.—E. Mathes, Clk., writes us that the council has received bids for plans for sewers. No action has yet been taken.

DES MOINES, IA.—Bids are asked until Sept. 30 for constructing pipe sewers in certain streets. Chn. Bd. Pub. Wks., G. A. Eberhart.

EASTON, MINN.—Bids are asked until Sept. 28 for constructing a sewer. Engrs., M. B. & A. M. Haynes, Waukato, Minn.; Recdr., F. W. Roth.

CLINTON, MO.—It is proposed to construct a sewer in district No. 25.

OTTAWA, ONT.—S. J. Davis, Chn. Com., writes us that the following work is included in the by-law to spend $425,000 voted by the people Sept. 8: Western outlet—6,400 ft. of 5-ft. circular and 2,000 ft. of 4-ft. sewer; mostly through limestone rock and cutting; Eastern outlet—8,300 ft. of 5- across the canal and Rideau River; 6,300 ft. of 5-ft., 9,100 ft. of 6-ft. and 5,300 ft. of 7-ft. sewer, mostly in rock and earth or clay cutting. The work will probably be let in three different contracts. Engrs., Rudolph Hering, 100 William St., New York, and Robert Surtees, Cy. Engr. of Ottawa.

CHERTSEY, ENGLAND.—Plans are asked until Dec. 23 for a system and a sewage disposal plant. The premiums will be $250, $150 and $100, respectively. Clk., T. E. Harland Chaldecott.

GARBAGE DISPOSAL—STREET CLEANING

BRIDGEPORT, CONN.—The board of health has rejected the offer of Frank E. Clark, Pres. Connecticut Reduction Co., recently holding the contract for burning the city garbage, to sell the plant to the city. The board has decided that for the present the garbage will be buried at the town farm. In the meantime the question of erecting a crematory will be considered. Mayor Taylor may be addressed.

LANSINGBURG, N. Y.—Bids are asked by the city clerk until Sept. 27 for cleaning the streets and alleys.

ATLANTIC CITY, N. J.—The council has awarded the contract for building a Smith-Simon incinerating plant to Thos. K. Dalzell, Reading, Pa., at $29,900.

PHILLIPSBURG, N. J.—The council has voted to build a plant to cost about $8,500, according to reports.

BEAVER FALLS, PA.—The Keystone Reduction Co. has been awarded a 5-year contract for removing the garbage, night soil, dead animals, etc. The company will pay the city $400 a year, according to reports. A plant will be built at once.

READING, PA.—H. H. Hammer, Cy. Clk., writes us that the following bids were received Sept. 16 for reconstructing the garbage disposal plant: Chas. Linsey and Benjamin Howland, Philadelphia, $4,453; John H. Hook, Lancaster, Pa., $2,375, and the General American Reduction Co., Philadelphia, $3,250. The question of awarding the contract will be considered at the meeting of the council, Sept. 26.

NEW ORLEANS, LA.—The council has adopted a resolution directing the city engineer and commissioner of public works to prepare specifications for the erection of crematories in order that all garbage collected in the city be destroyed by fire within the time guaranteed to the secretary of war.

MILWAUKEE, WIS.—The aldermen have voted to purchase a plant of the Engel Sanitary & Crematory Co. for $52,500.

SANTIAGO, CUBA.—The Dixon Cremating Co. is said to have been awarded the contract by the U. S. government to furnish this city with a plant.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked until 12 m., Sept. 23, for macadamizing portions of four streets. Benj. W. Wells, Supt. Sts.

WASHINGTON, MASS.—Reports state that W. C. Whitney is considering the question of constructing a road from his residence to Washington St., to cost about $10,000.

MILFORD, CONN.—Bids are asked until Sept. 30 for macadamizing on Broad and Cherry Sts. E. E. Bradley, First Selectman.

ALBANY, N. Y.—A contract has been awarded to Mulderry Bros., at $32,079 for paving Elm St. with brick between Grand St. and Delaware Ave.

BUFFALO, N. Y.—Bids are asked until Sept. 28 for paving in Hirschbeck St. with brick. R. G. Parsons, Secy. Bd. Pub. Wks.——The Buffalo Marblelithic Paving Co. has been awarded a contract for 32,000 sq. ft. of marblelithic sidewalk around Humboldt Park, to cost about $6,000.

DEERFIELD, N.Y.—Bids are asked until Oct. 4 for improving the River Road for 2¼ miles. C. W. Adams, State Engr., Albany.

NEWBURG, N. Y.—David Brown, Alderman, informs us that the question of asphalt paving is being considered at an estimated cost of $26,647. Chas. Caldwell, Cy. Engr.

NIAGARA FALLS, N. Y.—Bids are asked until Sept. 30 for about 1,200 sq. yds. of asphalt paving on Cherry Ave., as stated in our advertising columns. Walter Jones, Cy. Engr.; S. F. Arkush, Clk.

ROCHESTER, N. Y.—Whitmore, Rauber & Vicinus have been awarded a contract at $56,503 for asphalt paving in North Clinton St.

SALAMANCA, N. Y.—Bids are asked by the village clerk until Sept. 28 for furnishing the materials and for 9,755 sq. yds. of brick paving, as stated in our advertising columns.

SCHENECTADY, N. Y.—Bids are asked by the council until Sept. 27 for paving Summit Ave., Franklin and Mynderse Sts., with sheet asphalt.

SYRACUSE, N. Y.—Bids are asked until Sept. 26 for the purchase of $20,000 of improvement bonds. C. F. Allen, Cy. Treas.

TROY, N. Y.—Bids are asked until Oct. 4 for grading and widening Mill St. E. Ogden Ross, Secy. Contracting Bd.

ATLANTIC CITY, N. J.—Bids are asked until Oct. 3 for brick and macadam paving, as described in our advertising columns. Cy. Surv., J. A. Hackney; Chn. Com., Edward S. Lee.

ELIZABETH, N. J.—The board of trade will ask the council to expend $47,000 for asphalt paving, according to reports.

HOBOKEN, N. J.—Bids are asked until Oct. 12 for asphalt paving in portions of nine streets and for improving certain other streets. M. V. McDermott, Cy. Clk.

PHILLIPSBURG, N. J.—Bids are asked until Sept. 29 for the purchase of $60,000 of 4% street improvement bonds. G. G. Stryker, Chn. Finance Com.

ALLEGHENY, PA.—An election will be held to vote on the question of increasing the bond debt $10,000, for paving and grading the Franklin Road.

MAUCH CHUNK, PA.—The city clerk informs us that the question of increasing the bonded indebtedness for street improvements will probably not be submitted to a vote before February.

SCRANTON, PA.—An ordinance will be introduced in the council for an appropriation of about $68,000 for repairing certain paved streets.

WASHINGTON, PA.—An election was held Sept. 16 to vote on the question of appropriating $67,000 for street improvements.

YORK, PA.—The committee has submitted an estimate of 133,915 sq. yds. of paving to be laid throughout the city.

WILLIAMSPORT, MD.—Geo. Thompson, Mayor, informs us that there is a movement being made to secrue better roads by private subscription, and that the county will give double the amount appropriated. S. B. Kenedy, Engr., Chambersburg, Pa.

LOUISVILLE, KY.—Bids are asked by the board of public works until Sept. 27 for asphalt paving in 26th and Oak Sts. The council is considering the question of establishing an asphalt plant to repair pavements.

PADUCAH, KY.—Bids are asked until 2 p.m., Sept. 22, for grading and graveling Bridge St. from Broad St. to Benton Road. Jas. M. Lang, Mayor.

CLEVELAND, O.—Bids are asked until Oct. 5 for grading and paving the Ridge Road for seven-eighths of a mile. J. C. Dorn, County Clk.——Bids are asked until Oct. 7 for asphalt paving, grading, draining, etc., on portions of Pearl and Lorain Sts., and macadamizing on Carter, St. Clair and Superior Sts. Geo. R. Warden, Dir. Pub. Wks.

COLUMBUS, O.—Bids are asked until 12 m., Sept. 22, for furnishing and constructing asphalt, brick or stone pavement on Yale Ave. Jas. A. Fanning, Clk. Bd. Pub. Wks.——The Acme Paving Co. has been awarded a contract at $2,200 for laying new sidewalks on High and Broad Sts., at the state capitol grounds.

COSHOCTON, O.—The following bids have been received for paving Main St.: N. G. Abbott, Columbus, O., $27,758; Adams Bros., Zanesville, O., $20,648; J. N. Kissner, Warsaw, O., $20,647; C. B. McArthur, Kenton, O., $25,019; Townsend & Co., Zanesville, O., $20,764.

MALTA, O.—W. J. Berry, Marietta, O., has been awarded a contract at $8,630 for brick paving.

STEUBENVILLE, O.—Bids are asked until Sept. 28 for paving Fourth St. with brick. Geo. P. McCracken, Cy. Clk.

ALEXANDRIA, IND.—Bids are asked until Sept. 27 for a gravel roadway and brick sidewalks on Harris St. between Canal and Harrison Sts. G. A. Gessner, Jr., Cy. Engr.

ANDERSON, IND.—A petition signed by J. A. Cox and others has been presented to the council for asphalt paving in West Ninth St.

TERRE HAUTE, IND.—The county commissioners have awarded contracts for constructing roads to Jean, Jean & Haxton, Worthington, Ind., at $5,000, Paris Road; Fred S. Jessup, Worthington, Ind., at $3,263, National Road, and $6,739 for the Darwin Road.

DETROIT, MICH.—Bids are asked until 10 a. m., Sept. 23, for furnishing and constructing cedar block pavement, curb, etc., on four streets. D. W. H. Moreland, Pres. Bd. Pub. Wks.

CARTHAGE, ILL.—H. C. Johnson, Secy., writes us that bids will probably be asked about Oct. 15 for 25,935 sq. yds. of brick paving, estimated cost $35,000. The funds will be raised by special assessment. Engr., Thos. McClanahan, Monmouth, Ill.; M. P. Barry, Pres. Local Bd. Improvements.

CHICAGO, ILL.—The West Park commissioners propose to extend the Washington Boulevard to Maywoood, a distance of four miles, at an estimated cost of about $600,000.

CHICAGO, ILL.—Bids are asked until 3 p. m., Sept. 23, for cement walks, brick paving, grading, etc. on the grounds of certain schools. Address Board of Education, 1110 Schiller Bldg.

PONTIAC, ILL.—Bids are asked until Sept. 27 for constructing 3,975 sq. yds. of brick paving, cement curbing, etc., as stated in our advertising columns. F. W. Winkler, Cy. Attorney.

WILMETTE, ILL.—Bids are asked until Sept. 27 for grading, curbing and macadamizing on Wilmette Ave. Wm. J. Pierson, Chn. Bd. Local Improvements.

LA CROSSE, WIS.—Bids are asked until 2 p. m., Sept. 22, for grading portions of 17 streets. D. E. Rice, Chn. Comrs. Pub. Wks.

COUNCIL BLUFFS, IA.—Bids are asked by the council until Oct. 10 for asphalt and brick paving on a number of streets.

ST. PAUL, MINN.—Bids are asked by the county commissioners until Oct. 10 for macadamizing Rice St. and the White Bear Road, estimated cost about $14,000.

OMAHA, NEB.—Bids are asked until Sept. 30 for asphalt, brick or stone paving in 40th St. Andrew Rosewater, Chn.

INDEPENDENCE, KAN.—Bids are asked by the council until 5 p. m., Sept. 23, for 22,000 sq. yds. of two course brick paving, bond for $5,000.

KANSAS CITY, MO.—Bids are asked until Sept. 27 for furnishing and constructing asphalt pavement in nine streets. Henry A. Wise, Cy. Engr.

ST. LOUIS, MO.—Bids are asked until Oct. 7 for granitoid sidewalks around St. Louis Place. Robt. E. McMath, Pres. Bd. Pub. Improvements.

HELENA, MONT.—Bids are asked by the board of public works for granolithic paving and stone gutter in front of the city hall, and for 20 street crossings and furnishing crushed stone, etc.

SACRAMENTO, CAL.—The county supervisors will improve a portion of Riverside Ave. with macadam, to cost about $2,500. Address Supervisor McLaughlin.

MONTREAL, QUE.—The aldermen will present an ordinance to the council to appropriate $3,000 for improving St. Catherine St. and $2,166 for Craig St.

TORONTO, ONT.—The board of public works is considering a proposition to pave Major St. with asphalt, at an estimated cost of $27,290.

MANUFACTURING PLANTS.

EAST BOWDOINHAM, ME.—The ice plant of Clark & Chaplin at this place, consisting of twelve buildings, has been destroyed by fire; estimated loss, $50,000.

MIDDLEBURY, VT.—F. O. Sinclair, Burlington, Vt., is said to have secured the contract for two steel frame buildings, 45x152 ft., and one, 45x200 ft., for the Brandon Italian Marble Co., of Middlebury.

BUFFALO, N. Y.—Bids are asked for erecting a new brewing plant in this city to cost about $100,000. Archs., Esenwein & Johnson, 707 Mooney Bldg.

OSWEGO, N. Y.—It is reported that the malt house of the Stevenson Brewing Co., which was burned some weeks ago, will be replaced in the spring by a new plant, to cost about $100,000. Pres., James McClenahan, of New York.

TROY, N. Y.—Cluett, Coon & Co., of this city, inform us that the building which it expects to erect adjacent to its present collar factories on River St. will be used as a warehouse and not as a factory.

WOODBURY, N. J.—The window glass works at this place, owned by Col. G. G. Green, were destroyed by fire Sept. 19, causing a reported loss of $30,000.

AVONMORE, PA.—Reports from Pittsburg state that W. H. R. Hilliard, M. M. Garland, Oliver Wylie, W. S. Collier and T. H. Jeremiah have organized a company, with $200,000 capital stock, to build and operate a 6-mill tinplate plant at Avonmore that will employ about 300 men.

CONNELLSVILLE, PA.—W. H. Baldridge, of Connellsville, informs us that all the contracts have been let for additions to the plant of the Humbert Tin Plate Co. The extension to the main building will be erected by Wm. B. Scaife & Sons; all additional furnaces, foundations, etc., will be put up by Edward E. Erickson; the new engines will be furnished by Barclay M. Everson, and the hot and cold rolls, housings, etc., by the Totten & Hoag Iron & Steel Co., all of Pittsburg. All other buildings, railway tracks, etc., will be built by the company. Work is to be completed within a month. Pres., Geo. J. Humbert, Connellsville.

WILLIAMSPORT, PA.—The sawmill and lumber yard of Hunt, Deemer & Co. were damaged by fire, Sept. 18, causing a reported loss of $75,000.

WHEELING, W. VA.—The Acme Box Co.'s plant at this place was burned Sept. 15, causing a reported loss of $50,000. Owner, John Arbenz.

ROSSVILLE, GA.—It is reported that E. G. Richmond, W. F. Hutcheson and N. A. Campbell, of Chattanooga, Tenn., have decided to erect a new cotton yarn mill at this place, to cost about $90,000.

GADSDEN, ALA.—It is announced that the Dwight Mfg. Co. will double the capacity of its plant, and thus will require 30,000 additional spindles. Mgr., R. A. Mitchell.

DAVENPORT, IA.—John Peters has been awarded the contract for erecting a 2-story warehouse for the Glucose Sugar Refining Co., at $11,250.

MONTREAL, QUE.—Reports state that bids are being received by Peck, Binny & Co. for the reconstruction of their large rolling mills on Mill St., which were lately destroyed by fire. Estimated cost of improvement, $100,000.

CHIHUAHUA, MEX.—Press reports state that Henry C. Creel, of Chihuahua, who is connected with the Chihuahua & Pacific Ry. Co., is about to erect a 20-ton open-hearth steel plant in this city. It is also said that the Wellman-Seaver Engineering Co., of Cleveland, O., will equip the plant.

GAS PLANTS.

BUFFALO, N. Y.—The council has appropriated $1,000 for the hire of an expert to prepare plans for a municipal gas plant.

SANDY HILL, N. Y.—A franchise has been granted to James E. Flood and James D. Sherrill to construct and operate a gas plant for light, fuel, etc. President Filkins, Bd. Village Trustees.

WYNCOTE, PA.—Reports state that a new gas plant is about to be erected here.

FOSTORIA, O.—It is reported that a syndicate represented by Samuel R. Bullock, Philadelphia, Pa., has purchased the plants of the Fostoria Light & Power Co. and the Northwestern Natural Gas Co., and will construct a new gas plant in this city for light and fuel.

FULTON, KY.—Charles Gregory has applied for a franchise to construct and operate a gas plant, according to reports. Population, about 2,000.

LINCOLN, ILL.—The plant of the Lincoln Gas Co. has been sold for $200,000 by Frank M. Mills to Joseph H. Vail, Chicago, representing Eastern capitalists. The plant is bonded for $30,000.

SAN BERNARDINO, CAL.—B. C. Roos writes us that he is about to organize a company to construct a plant for the manufacture of gas, ice and electricity.

NEW COMPANIES.—Crescent Oil & Gas Co., St. Mary's, W. Va.; $50,000, with $100 paid in; to bore for oil, gas, etc.; Henry Lenz, Wm. Muehlbrunner, Allegheny, Pa.; J. A. Eiptunstone, J. F. Roessle, Wm. H. Roessle, Pittsburg, Pa.

Paulding Oil & Gas Co., Paulding, O.; $10,000; to drill for gas and oil.

California Oil & Gas Co., Yuma, Arizona; $2,000,000; W. H. Hart, N. Y. Lemance, L. L. Bettys, Henry P. Umbsen, R. J. Davis, D. E. Hayes and W. H. Snedaker.

MISCELLANEOUS CONTRACTS.

FIRE HOSE.—Owosso, Mich.—The fire department has asked the committee to purchase 1,000 ft. of new fire hose.

CEMENT.—Seattle, Wash.—Bids are asked until October for furnishing Portland cement. Capt. Harry Taylor, U. S. Engr.

POLICE SIGNAL SYSTEM.—Gloucester, Mass.—F. E. Davis writes us that a police signal system will be installed at an early date.

GASOLINE ENGINE.—Red Hook, N. Y.—D. W. Wilbur wishes to secure some cheap power (not to exceed 1 HP.) for running a cream separator.

CYCLEWAY.—Pasadena, Cal.—Horace H. Dobbins, Pres. Cycleway Co., has been granted a franchise for a cycleway to cost about $187,500.

TELEPHONE SYSTEM.—Washington, Ga.—A franchise has been awarded to Neil & Grier to establish a telephone exchange for this town and county.

LUMBER.—New York, N. Y.—Bids are asked until Oct. 3 for furnishing spruce joist, roofing boards and white pine. Francis J. Lantry, Comr. Dept. of Correction.

POLICE CALL SYSTEM.—Birmingham, Ala.—The board of aldermen will investigate the cost of repairing the Gamewell police call system which will include about $700 for wiring.

BOILERS.—Providence, R. I.—Bids are asked until 12 m., Sept. 24, for furnishing boilers of about 400 HP. E. K. Glenze, Secy. State House Comrs., 308 Industrial Trust Co. Bldg.

TELEPHONE SYSTEM.—Little Rock, Ark.—The council has granted a franchise to the American Telephone & Telegraph Co. for a telephone system, to have long distance connections.

MACHINERY.—Boston, Mass.—Bids are asked until Sept. 27 for furnishing a quantity of rope making machinery for the navy yard. Edwin Stewart, Paymaster-Gen., U. S. N., Washington, D. C.

DREDGING, ETC.—Portland, Ore.—Chairman McCracken has reported that the channel is in need of dredging on the west side of Coon Island. Two dump scows will be purchased, to cost about $1,400 each.

LEVEE.—Dayton, O.—Bids are asked until Oct. 3 for enlarging the levee along the Miami River, from Euwing St. to the Troy Pike Road, and along the river to the Dayton & Michigan R. R. J. E. Gimperling, Cy. Comptroller.

FLOOD GATES.—Dayton, O.—Bids are asked until Oct. 3 for constructing flood gates across the Miami River and Erie Canal at Apple St., and for constructing masonry at the west end of the Apple St. sewer. J. E. Gimperling, Comptroller.

CEMENT, BROKEN STONE, ETC.—Fort Washington, Md.—Bids are asked until Oct. 10 for furnishing American natural and Portland cement, broken stone, etc., as stated in our advertising columns. Lt.-Col. Chas. J. Allen, Engr.

PARKWORK.—Kansas City, Mo.—A petition has been presented to the commissioners by Thos. W. Gilruth, A. W. Love and others, for the improvement of the West Park district. It is proposed to construct a steel observatory tower on the reservoir site.

CANAL WORK.—Kirkersville, O.—Bids are asked until Oct. 1 for deepening, widening and strengthening the Kirkersville Feeder from Kirkersville to Buckeye Lake. Engr., J. T. Egerton, Ironton, O.; Chas. E. Perkins, Ch. Engr. Bd. Pub. Wks. of Ohio, Columbus.

CHANNEL.—Waterbury, Conn.—Bids are asked until Sept. 24 for constructing a new channel for Little Brook, between East Main St. and Abbott Ave., about 390 ft. long, 6 ft. wide and 5¼ ft. deep, of brick and concrete. R. A. Cairns, Cy. Engr., 9 Leavenworth St.

LEVEE WORK.—Brownsville, Tenn.—Contracts have been awarded to J. R. Kinney and C. A. Short for levee work along the Hatchie River. J. N. E. Moore, Chn.

MACHINERY.—Norfolk, Va.—Bids are asked until Sept. 27 for furnishing the navy yard with a 32-in. swing, triple-geared engine lathe, a 25-in. lathe, an 18-in. lathe, a universal milling machine, drills, trimmers, shapers, etc. Edwin Stewart, Paymaster-Gen., U. S. N., Washington, D. C.

BRICK PAVING.—Glens Falls, N. Y.—W. R. Johnson, Catskill, N. Y., submitted the lowest bid, Sept. 5, for 5,800 sq. yds. of brick paving in Glen St., at $1.80 a sq. yd.

DIKES.—Hudson River.—Col. J. W. Barlow, U. S. Engr., Army Bldg., New York, received the following bids Sept. 8 for repairing and building dikes in the Hudson River and for furnishing paving and rubble stone, as advertised in Engineering News; the bid of Kirk, Driscoll & Co. was recommended for acceptance:

Bids Received at New York City, Sept. 8, 1898, for Repairs to and the Building of Dikes in the Hudson River.

Bidder.	Pine or spruce piles, 193,000 lin. ft.	Round timber, 11,000 lin. ft.	Square timber, yellow pine, 206,000 ft.	Tie rods and screw bolts, 136,000 lbs.	Drift bolts, etc., 43,000 lbs.	Rubble stone put in dike, 11,200 cu. yds.	Quarry spalls put in dike, 2,400 cu. yds.	Rubble stone, delivered, 1,100 cu. yds.	Paving stone, delivered, 1,000 cu. yds.	Total.
International Con. Co., 95 Broad St., New York..	$0.12½	$0.12½	$35.00	$0.04	$0.04	$0.90	$0.75	$0.90	$1.25	$53,690
James Du Bois & Co., 11 Broadway, New York...	.11	.11	27.25	.04¾	.04¾	.95	.95	.95	1.40	51,541
Chas. W. Johnston, Lewes, Del.	.13	.13	18.50	.06	.06	.95	.90	.95	.98	55,536
Frank Pidgeon, Saugerties, N. Y.	.11½	.15	36.00	.03¼	.03¼	.95	1.25	.95	1.25	52,514
P. Sanford Ross, 277 Washington St., Jersey City.	.12¾	.10	35.00	.03½	.03½	1.00	.90	1.00	1.75	55,033
John Berkery, 11-13 William St., New York	.10	.08	27.50	.05	.05	1.00	1.00	1.00	1.25	50,345
William Parrott, Newburg, N. Y.	.10⅞	.10	38.50	.04	.04	.90	.90	.90	1.50	51,550
Richard Parrott, Newburg, N. Y.	.11½	.11½	35.00	.04	.03½	.85	1.00	1.00	1.50	51,735
A.F. Chapman & Co., 476 Ellicott Sq. Bldg., Buffalo	.109	.10⅝	33.00	.03⅝	.04	.90	.79	.98	1.75	49,855
John E. Pidgeon, Manlius Center, N. Y.	.10	.09	33.00	.03½	.03½	1.25	1.10	1.25	1.40	52,328
Kirk, Driscoll & Co., 10 Dunfee Bldg., Syracuse.	.11	.09	35.00	.03¾	.03½	.89	.70	.89	1.40	49,782
Wm. D. Fuller, New Baltimore, N. Y.	.10¾	.10	36.00	.04	.04	.87	.75	.94	1.89	50,592

NAVAL SUPPLIES.—New York, N. Y.—Bids are asked until September 27 for furnishing the Brooklyn navy yard with 200,000 ft. B. M. of yellow pine, 2,000 ft. of galvanized steel cable, electric apparatus, about 20,000 fuses, 60,000 ft. of lightning wire, 32,500 ft. of galvanized iron pipe, etc. Edwin Stewart, Paymaster-Gen., U. S. N., Washington, D. C.

TELEPHONE LINE, WHARF, ETC.—Washington, D.C.—Bids are asked until Sept. 24 for building a telephone line, furnishing wooden tanks, a steam pump and extending old ballast wharf at the marine hospital at the South Atlantic Quarantine. Jas. N. Nydegyer, Passed Asst. Surgeon, Treasury Dept.; Office of Marine Hospital, Washington.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Sept. 27 for furnishing the navy yard with 71,780 lbs. of cold rolled copper, 300,000 lbs. of round brass, 24,500 lbs. of commercial sheet steel, 600,000 lbs. of ingot copper, etc., and for a heating and ventilating plant for the new experimental model basin. Edwin Stewart, Paymaster-General, U. S. N., Washington.

MACADAM ROAD.—Tuckahoe, N. Y.—Bellew & Merritt Co. has been awarded the contract for Telford macadam paving in Midland Ave., and on Cronin Hill, at $1.24 and $1.19 a sq. yd., respectively, and 50 cts. a lin. ft. for brick gutter. Town Clk., W. J. Fisher.

BROKEN LIMESTONE, ETC.—Brooklyn, N. Y.—The following bids were recently received by Commissioner Keating, of Highways, for furnishing broken limestone and limestone screenings in Brooklyn, wherever needed for street repairs: Norton & Gorman, broken limestone a cu. yd., $1.49, screening, a cu. yd., $1.49; Nicholas Ryan, $1.64, and $1.64; J. Frank Quinn, $1.75 and $1.75, respectively.

WATER-WORKS.—Paw Paw, Mich.—The following bids were received Aug. 17 for furnishing the following materials, etc., for the proposed water-works, the bids for the remainder of the work being given under Water-Works; Alexander & Shaw bid 71 cts., 55 cts., 40½ cts. and 31 cts respectively for furnishing and laying together; the hydrant connections are for fire steamer; Engr., Geo. S. Pierson, Kalamazoo, Mich.:

Bids Received at Paw Paw, Mich., Aug. 17, 1898, for the Construction of Water-Works.

Bidder.	Iron pipe, 355 tons.	Special c'st'gs, 12,000 lbs.	Hydrants With conns., 10, each.	Hydrants Without conns., 22, each.	Gates 10-in., 1, each.	Gates 8-in., 4, each.	Gates 6-in., 8, each.	Gates 4-in., 4, each.	Gate boxes, 17, each.	Laying pipe, a ft. 10-in., 1,900 ft.	Laying pipe, a ft. 8-in., 2,400 ft.	Laying pipe, a ft. 6-in., 11,400 ft.	Laying pipe, a ft. 4-in., 2,800 ft.
Jas. W. Pearl, Kalamazoo..	$17.00	$0.02½	$29.00	$26.00	$24.00	$19.00	$12.00	$18.00	$3.50	$0.18	$0.15	$0.13	$0.11
T. C. Brooks & Sons, Jackson	15.20	.01¾	23.00	21.50	23.00	16.00	11.50	6.50	2.60	.18	.16	.13	.11
Kalamazoo Spiv & Cnstn Co.	16.60	.02¼	56.00	31.00	21.50	16.00	10.00	6.00	2.75	.27	.19	.16	.128
Alexander & Shaw, Chicago.	.....	...	.....	.....	.....	.....	.....	.....	....	.195	.185	.14	.11
M. Walker, Fenton, Mich...	15.80	.01½	24.50	22.25	20.00	15.75	10.65	6.37	2.60	.18	.15	.12	.10
Man & Andrew, Dowagiac..	.....	...	.....	.....	.....	.....	.....	.....	....	.17	.145	.12	.10
R. D. Wood & Co., Phila....	.....	...	22.00†	21.50	22.00	15.00	10.00	6.00	2.40	...	...	...	...
Mich. Brass & Iron Wks.*..	.....	...	21.00§	19.50	20.00	13.75	9.00	5.00	2.50	...	...	...	...
Bourbon Cop'r & Brass Wks	.....	...	18.75‡	.....	20.00	15.00	9.50	6.00	3.12	...	...	...	...

*Detroit. †4-in., $22.00, 4½-in., $23.80. §4-in., 21.00, 5-in., $24.00. ‡4-in., $18.75 and $22.10, 5-in., $22.75 and $22.30.

LEVEE WORK.—West Memphis, Ark.—Bids are asked until Oct. 21 for constructing 24 miles of levee, containing about 2,193,000 cu. yds. of material, in Crittenden county; also for constructing about eight miles of levee in Lee county, containing about 800,000 cu. yds., as stated in our advertising columns. John B. Driver, Pres. St. Francis Levee Bd., West Memphis; Harry N. Pharr, Ch. Engr., 40 Southern Express Bldg., Memphis, Tenn.

STEAM GENERATORS.—League Island Navy Yard, Pa.—We are informed that M. T. Endicott, Ch. Bureau Yards and Docks, U. S. N., Washington, received the following bids Sept. 17 for furnishing and installing steam generators at the navy yard:

Babcock & Wilcox Co., New York	$5,500
Aultman & Taylor Machinery Co., Mansfield, O.	5,469
*Heine Safety Boiler Co., Philadelphia	5,135
John Baizley, Philadelphia	7,485

*Awarded contract.

CONTRACT PRICES.

DREDGING.—Bridgeport, Conn.—The following bids were received Aug. 31, 1898, by Maj. Smith S. Leach, U.S. Engr., for dredging in Bridgeport Harbor, Conn.; bid of Henry Du Bois Sons recommended for acceptance:

Bidder.	Dredging, Prior to Nov. 30, 1898.*	Dredging, After Nov. 30, 1898.	Total.
Alonzo J. Beardsley, Bridgeport..	$0.08½	.....	$6,800
H.Du Bois Sons, 119 South St., N.Y	.060	$0.035	5,520
E. Brainard, 24 State St., N. Y...	.11	.05½	8,800
Wm. H. Taylor, Jr, Jersey City...	.07½	.03¾	6,000
J. P. Randerson, Albany, N. Y...	.08	.04	6,400

*80,000 cu. yds.

BRICK PAVING.—Albany, N. Y.—The following bids were received by the board of contract Sept. 6 for brick paving in Elm St., from Grand St. to Delaware Ave.; Mulderry Bros. were awarded contract:

Bids Received at Albany, N. Y., Sept. 6, 1898, for Brick Paving in Elm St.—Grand St. to Delaware Ave.

Quantities.		Frank Pidgeon, Catskill.	Troy Public Works Co. Troy.	Mulderry Bros. Catskill.	Wm. R. Reynolds. Catskill.
Kind of brick to be used	.....	.....	.....	.....	.....
Vitrified brick pavement	11,000 sq. yds.	$1.97	$1.95	$1.68	$1.75
Straight granite curb	6,530 lin. ft..	.75	.70	.60	.67
Circular granite curb	270 " "	.75	.70	1.05	.74
Pavement relaid on sand	70 sq. yds.	.30	.25	.50	.50
Pavement relaid on concrete	10 " "	1.50	1.00	2.50	1.00
Curb relaid on sand	30 lin. ft..	.25	.20	.30	.50
Curb relaid on concrete	50 " "	.40	.30	.45	.40
New vitrified brick sidewalk	60,000 sq. ft...	.08	.10	.09½	.07
New 4-ft. flag sidewalk	10,000 " "	.17	.14	.15	.13
Relaying sidewalk	30,000 " "	.04	.03	.04	.03
Receiving basins	6 each...	85.00	75.00	85.00	70.00
Repairing receiving basins	3 " ...	25.00	25.00	50.00	35.00
Total	.....	$35,719	$35,459	$32,083	$30,980
Number of days to complete work at $5 a day	.....	120	75	50	50

Other bids on supplies were as follows: American Pipe & Foundry Co., Chattanooga, Tenn., pipe, $15.20 a ton; specials, 1¼ cts. a lb.; Lake Shore Foundry, Cleveland, O., $15.80 and 1¾ cts., respectively; Dennis Long & Co., Louisville, Ky., $15.19 and 2 cts.; Addyston Pipe & Steel Co., Cincinnati, O., $16.00 and 2 cts.

REPAIRING LOCKS.—Pittsburg, Pa.—Maj. Chas. F. Powell, U. S. Engr., received the bids Sept. 9, 1898, for certain wrought and cast iron work, for the locks and dams on the Monongahela River, on which extensive repairs are being made by G. W. Hegemier & Co. The iron work is purchased by the government and turned over to the contractor, who is making the repairs. The bids asked were for about 50,000 lbs. of wrought iron, and about 48,000 lbs. of cast iron for lock No. 1. The bids were as follows, a lb.: Fort Pitt Bridge Works, wrought, 2¼ cts., cast 3¾ cts.; Bair & Gazman Co., wrought 2¾ cts., cast 2¾ cts.; Oliver Iron & Steel Co., wrought 2¾ cts.; Union Foundry & Machine Co., wrought 1.85 cts., cast 2.4 cts.; Wm. Yeagle & Co., cast 1.65 cts.; Thos. Carlin's Sons, wrought 2 cts., cast 3 cts.; Pittsburg Mfg. Co., wrought 3 cts., cast 2 cts.; Thomas Marshall, wrought 2½ to 3½ cts., cast 2 to 3½ cts.; Caffe Foundry & Machine Co., wrought 4½ cts., cast 4 cts. For lock No. 2, about 32,000 lbs. of wrought iron and 11,000 lbs. of cast iron will be required. The bids for this lot were as follows: Bair & Gazman Co., wrought 4¼ cts., cast 3¾ cts.; Thomas Marshall, wrought 3 to 6 cts., cast 3 cts.; Wm. Yeagle, cast 2.45 cts.; Thomas Carlin's Sons, wrought 5.88 cts., cast 4 cts.; Pittsburg Mfg. Co., wrought 3½ cts., cast 1.875 cts.; Union Foundry & Machine Co., wrought .0542-ct., cast .0388-ct.; Oliver Iron & Steel Co., wrought .0225-ct.; Fort Pitt Bridge Works, wrought 3.87 cts., cast .0225-ct.

ASPHALT PAVING.—Chester, Pa.—The Vulcanite Paving Co., Philadelphia, has been awarded the contract for asphalt paving in Market St., at $1.73 a sq. yd., 5-year guarantee, and at $1.89, 10-year guarantee.

LEVEE WORK.—Carlyle, Ill.—Noble W. Irish, Carlyle, is reported to have been awarded the contract for repairing the old Santa Fe levee on the Kaskaskia River, at 16 cts. a cu. yd.; total, $12,000.

VAPOR LIGHTING.—Washington, D. C.—The district commissioners have received the following bids for furnishing naphtha street lamps and light, the district in all cases to furnish posts and street designations: For 1,000 lamps or over, bidders to furnish lantern and equipment.—American Development Co., $19.50; Sun Vapor Street Light ng Co., $16.72; Pennsylvania Globe Gas Light Co., $20.00; For 1,000 lamps or over, district to furnish lantern, contractor the equipment and light—American Development Co.,$16.80; Sun Vapor Lighting Co., $15.72; Pennsylvania Globe Gas Light Co., $20.00.

ASPHALT PAVING.— Rochester, N. Y.—Whitmore, Rauber & Vicinus, Rochester, submitted the lowest bid at $1.70 a sq. yd. for asphalt paving in North Clinton St., from Clifford St. to the city line; total, $78,000.

BRICK PAVING.—Shamokin, Pa.—D. O. Heim, Shamokin, has been awarded the contract for paving a portion of Shamokin St. with Mack brick, at $1.62 a sq. yd.

BRICK SEWER.—Richmond, Ind.—The following bids were received Sept. 16, for constructing a brick intercepting sewer in North E St.; contract awarded to John F. Cronin:

Bids Received at Richmond, Ind., Sept. 16, 1898, for the Construction of a Brick Intercepting Sewer.

Items.	Ulrich, Nissley & Williams, Springfield, O.	Greenville Construction Co., Greenville, O.	John F. Cronin, Richmond, Ind.	Schneider & Miller, Richmond, Ind.	Thomas J. Peters, Cincinnati, O.	William Rehling, Richmond, Ind.
Masonry { Brick, a cu. yd.	$8.25	$8.00	$5.75	$10.00	$8.20	$6.00
Masonry { Stone, a cu. yd.	8.00	11.00	8.00	10.00	8.00	7.00
Masonry { Concrete, a cu. yd.	6.00	7.00	5.25	10.00	8.00	4.00
Excavation, a cu. yd.	.35	.60	.40	.50	.31	.30
Lumber left in trench, per M. ft.	30.00	12.00	15.00	20.00	15.00	...
Cast iron, a lb.	.02	.0125	.025	.03	.03	.025
Pipe, a ton	35.00	35.00	35.00	...	40.00	...
Manholes, each	35.00	37.00	24.00	50.00	...	25.00
Lampholes, each	15.00	7.00	10.00	15.00	...	8.00
Catchbasins, each	30.00	32.00	35.00	30.00	...	30.00
Inlets, each	25.00	18.00	15.00	25.00	...	15.00
Subdrain pipe, a ft.	.10	.20	.06	...	.10	.07
Channels, each	.20	.11	.25	.27	.30	.26
Sewer brick, a 1,000	7.50	6.25	7.00	7.00	...	7.00
Bouldering, a cu. yd.	5.00	...	3.50	2.00	1.00	3.50
Brick sewer, 2,500 ft., complete	4.70	3.91	3.67	5.83	5.42	3.69
Sewer pipe, discount from list price	84%	87%	82½%	80%	..	75%

LEVEE WORK.—New Orleans, La.—The following contracts were let Sept. 12, 1898, by the Orleans District Levee Board for levee work in the Third District: From New Orleans & Northeastern R. R. to Alvar St. and from Lesseps St. to Ursuline Convent, J. G. Gardner, New Orleans, pilings, etc., 13 7-10 a lin. ft.; sawn timber, $25 a 1,000 ft., B. M., $22,125; Alvar to Lesseps Sts., including cave, Jno. J. Frawley, New Orleans, pilings, etc., 17 25-100 a lin. ft.; wharf timbers, $23.65 a 1,000 ft., B. M. Also 15 cts. a lin. ft. for all old pilings replaced and $13 a 1,000 ft. for all old wharf timbers; $31,900. From upper line of Ursuline Convent to Egania St., pilings, etc., 14 7-10 cts. a lin. ft.; wharf timbers, $21.70 a 1,000 ft., B. M.; $49,140.

DAM.—Columbus, O.—The following bids were received by the clerk of the board of public works, Sept. 10, for furnishing the materials and for constructing the foundation and lower portion of the concrete masonry dam for the new storage reservoir, as advertised in Engineering News:

Bids Received at Columbus, O., Sept. 10, 1898, for Constructing a Concrete Masonry Dam.

Bidder.	Excavation, Earth, Dry, 5,000 cu. yds.	Excavation, Earth, Wet, 3,500 cu. yds.	Excavation, Rock, 1,200 cu. yds.	Concrete masonry, 20,000 cu. yds.	Material alone.	Totals for furnishing cement, Contractor.	Totals for furnishing cement, City.
Greenville Construction Co., Greenville, O.	$0.50	$0.70	$2.00	$6.39	$5.00	$135,150	$67,550
William H. Luchtenberg & Co., Columbus, O.	.25	.75	.75	6.39	3.00	100,775	60,775
Willard & Cornwell, Louisville, Ky.	.22	1.40	1.00	4.69	2.50	101,000	57,200
S. Casparis, Columbus, O.	.30	1.00	1.00	6.04	1.99	127,000	46,000
Assurance Construction Co., New York.	.40	2.00	2.00	5.15	2.55	114,400	62,400
Houston Construction Co., Philadelphia, Pa.	.30	.90	1.00	5.63	3.00	118,450	65,850
Cleveland Construction Co., Cleveland, O.	.40	.60	1.00	5.50	3.50	115,300	75,300

MACADAM ROAD.—Westminster, Mass.—The Massachusetts State Highway Commission, A. B. Fletcher, Secy., Boston, awarded the following contract Sept. 8, 1898, to C. H. Kelleher, Newburyport, Mass.: Excavation, 871 cu. yds., 30 cts. a cu. yd.; excavation, borrow, 200 cu. yds., 35 cts.; ledge excavation, 10 cu. yds., $3.00; rubble masonry laid dry, 10 cu. yds., $5.00; rubble masonry laid in cement, 98 cu. yds., $8.00; gravel, 250 cu. yds., 50 cts.; telford, 100 sq. yds., 25 cts. a sq. yd.; shaping, 5,250 sq.yds., 2 cts.; broken stone in place, 1,254 tons, $1.30 a ton; 12-in. vitrified clay pipe, 40 lin. ft., 50 cts. a lin. ft.; fencing used as guard rail, 110 ft., 15 cts.; side drains, 1,325 ft., 25 cts.; stone monuments, 18 each, $1.00; 18-in. vitrified clay pipe, 175 lin. ft., 90 cts. a lin. ft.; catchbasins, 5 each, $15.00; superstructure of bridge, $175.00; total, $3,964.

BRICK PAVING.—Meadville, Pa.—D. T. McKay, Jr., Cy. Clk., informs us that the following bids were received Sept. 14, for brick paving, the contract being awarded Peter Schenck for Park wire-cut brick:

Bids Received at Meadville, Pa., Sept. 14, 1898, for Brick Paving.

Bidder.	Brick pavement, 1,480 sq. yds., complete; concrete foundation, a sq. yd. Brady Run.	Park.	Mack.	Frank-lin.	6 x 22-in. curbing, 970 lin. ft.	Edge stones, 100 lin. ft.	Cast-iron gutter plates, &c. 900 lbs.	Storm sewer 12-in., 40 lin. ft.	Storm sewer 10-in., 80 lin. ft.	Working days to complete.	Totals.	
Thomas McGuigan*	$1.30	$1.27	.....	$1.25	$0.44	$0.16	$0.01¾	$0.32	$0.30	30	$2,345	to $2,419
Ross & Robinson.†	1.25	1.23	.....	1.23	{1.40 / 2.46}	2.31	.01¾	.35	.33	35	2,281	" 2,325
Peter Schenck.§	....	1.23	$1.24	1.20	.38	.32	.01¾	.39	.34	60	2,235	" 2,294
Jas. McAfee & Co.‡	....	1.29	1.29	1.27	.44	.30	.02	.60	.50	30	2,418	" 2,448

*Meadville. †Meadville. §Butler. ‡Allegheny. [1]Ohio sandstone. [2]Natural flag. [3]Berea.

MACADAM ROAD.—Pittsfield, Mass.—The following contract was let Sept. 8, 1898, to Harris & Letteney, Boston, for building a macadam road in this city for the Massachusetts State Highway Commission; Secy., A. B. Fletcher, Boston: Excavation, 3,000 cu. yds., 40 cts a cu. yd.; excavation, borrow, 100 cu. yds., 38 cts.; excavation, ledge, 10 cu. yds., $4.25; rubble masonry, laid dry, 21 cu. yds., $4.60; rubble masonry laid in cement, 60 cu. yds.; $7.80; gravel, 418 cu. yds., 80 cts.; telford, 500 sq. yds., 36 cts.; shaping, 6,684 sq. yds., 2 cts.; broken stone in place, 1,719 tons, $1.94 a ton; 12-in. vitrified clay pipe, 58 cts.; fencing used for guard rail, 1,020 lin ft., 16 cts. a lin. ft.; side drains, 3,200 lin. ft., 29 cts.; stone monuments, 22 each, $1.50; total, $6,987. Extra work at following prices (materials at cost): Foremen, 40 cts. an hour; masons, 35 cts.; masons' helpers, 20 cts.; laborers 16⅔ cts.; double teams and drivers, 45 cts.; single teams and drivers, 30 cts.

INDUSTRIAL NOTES.

EXHIBITS AT THE ANNUAL CONVENTION OF THE NEW ENGLAND WATER-WORKS ASSOCIATION AT PORTSMOUTH, N. H., SEPT. 14 to 16:

VALVES AND HYDRANTS.—Rensselaer Mfg. Co., Troy, N. Y.; Coffin Valve Co., Boston, Mass.

METERS.—Thomson Meter Co., Brooklyn, N. Y.; Union Water Meter Co., Worcester, Mass.; National Meter Co., New York city; Hersey Mfg. Co., South Boston, Mass., Neptune Meter Co., New York city.

MISCELLANEOUS.—Ashcroft Mfg. Co., New York city, pressure and recording gages and safety valves; Fred. M. Gow, Medford, Mass., meter testing bench; Lead-Lined Iron Pipe Co., Wakefield, Mass., service pipe; Henry F. Jenks, Pawtucket, R. I., drinking fountains; Mueller Mfg. Co., Decatur, Ill., water-works supplies and tapping machines; A. P. Smith Mfg Co., Newark, N. J., tapping machines and water-works supplies; Builders' Iron Foundry, Providence, R. I., service boxes; Consolidated Safety Valve Co., safety valve.

EXHIBITORS AT ROADMASTERS' CONVENTION AT DENVER, COLO., SEPT. 13 AND 14.

A. O. Norton, Boston—Jacks.
Continuous Rail Joint Co., Newark, N. J.
National Lock Washer Co., Newark, N. J.
McMullen Woven Wire Fence Co., Chicago.
Page Woven Wire Fence Co., Adrian, Mich.
Weber Rail Joint Mfg. Co., New York, N. Y.
Elliott Switch & Frog Co., East St. Louis, Ill.
Coughlin-Sanford Switch Co., New York, N. Y.
W. Goldie, Jr., & Co., Pittsburg, Pa.—Tie plugs.
Eyeless Tool Co., New York, N. Y.—Track tools.
Macleod & Clark, Cincinnati, O.—The Buckeye light.
Automatic Rail-Joint Spring Co., Chicago.—Nut lock.
Roberts, Throp & Co., Three Rivers, Mich.—Hand cars.
Adams & Westlake, Chicago.—Switch and signal lamps.
Railroad Signal Lamp & Lantern Co., New York, N. Y.
L. S. Ware, Springville, N. Y.—Tie-plate, surfacer and gage.
Hussey, Binns & Co., Pittsburg, Pa.—Tamping shovels.
Ramapo Iron Works, Hillburn, N. Y.—Switches and frogs.
Standard Coupler Co., Chicago.—Wayland insulated rail joint.
Pettibone, Mulliken & Co., Chicago.—Track tools and supplies.
The Q. & C. Co., Chicago—Servis tie-plates and Bryant rail saws.
Buda Foundry & Mfg. Co., Harvey, Ill.—Handcars and track tools.
Fairbanks, Morse & Co., Chicago—Jacks, handcars, cattleguards.
Andrew Warren Railway Supply Co., St. Louis, Mo.—Track tools.
A. Bonzano, Philadelphia, Pa.—Rail joint and anti-creeping device.
Pennsylvania Steel Co., Steelton, Pa.—Switches, frogs and switchstand.
Dilworth & Porter Co., Pittsburg, Pa.—Goldie tie-plates and spikes.
Diamond State Iron Co., Wilmington, Del.—Spikes and the Churchill rail joint.
Railroad Supply Co., Chicago.—Wolhaupter tie-plates, cattle guard and crossing signal.
Matthews Woven Wire Fence Co., Jacksonville, Ill.—Fencing and posts for steel track signs.
M. M. Buck Mfg. Co., St. Louis, Mo.—Track tools and supplies, including enameled iron track flags.

THE PITTSBURG BRIDGE CO., through its New England agents, Collins & Norton, Springfield, Mass., has an order from Fitts Bros., South Framingham, Mass., for the steel framework of their new three-story building at the last-named place.

THE UNITED STATES SANITARY CO., Washington, D. C., has just completed and shipped to Santiago, Cuba, three carloads of its garbage wagons and carts. The company has in press a new booklet which will soon be out, and which will be sent free on application.

THE PITTSBURG REDUCTION CO., Pittsburg, has just received an order for 50,000 lbs. of aluminum from the Russian Government for army purposes. It is stated that the metal is being used in the Russian army for buttons, canteens, cooking utensils, buckles, and even as horse shoes.

MR. E. J. HAYDEN, for over six years a member of the firm of Harold C. Dayton & Co., 138 Dey St., New York, representative in that city of the Dobbie Foundry & Machine Co., Niagara Falls, N. Y., has established a contractors' railway and mill supply business, at 55 Warren St., New York.

THE STILWELL-BIERCE & SMITH-VAILE CO., Dayton, O., through its Chicago house, was recently awarded the contract for a compound direct-acting pumping engine at Missouri Valley, Ia.; also for electrically driven pumps at Alpena, Mich., and an air lift plant at Odell, Ill. The company reports a satisfactory trade in all its lines.

THE CLIMAX ROAD MACHINE CO., Marathon, Pa., reports that it has had to operate its works day and night for the entire past season in order to keep up with its orders for road machines. The business this year has been more than double that for 1897, which was the largest previous year. The plant will be enlarged this fall.

THE HELDERBERG CEMENT CO., 86 State St., Albany, N. Y., which recently put in operation a new plant for the manufacture of Portland cement at Howe's Cave, N. Y., reports that its orders are already more than double the capacity of the plant, and that the capacity of the plant may be quadrupled this winter. Mr. Chas. E. Lee is General Manager and Vice-President.

THE BRODHEAD CONTRACTING CO., recently incorporated as successors to Brodhead & Hickey and C. E. Brodhead & Co., has lately been awarded the contract to build the stockhouse walls and concrete pavement for the two new blast furnaces which are about to be erected by the Ohio Steel Co., at Youngstown, O. There are about 15,000 cu. yds. of rubble masonry and 15,000 cu. yds. of concrete foundation pavement.

THE AMERICAN DIAMOND ROCK DRILL CO., 120 Liberty St., New York, reports among recent orders a drill of 1,500 ft. capacity for Russia; hand drills for the Klondike and for Mexico; a No. 7 drill for Northern New York State; two 1,000-ft. drills for Mexico, and one drill for Sumatra, Asia. The company also reports a marked increase during the past two months in the diamond drill supply trade, both domestic and export, and considerable activity in orders for allied machinery.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., is erecting for Beaman & Smith, Providence, R. I., a new machine shop, 60x130 ft., with a lean-to addition, 20x50 ft. The building will be modern in every respect and will have a maximum amount of light consistent with good construction, will be practically fireproof, and arranged with traveling cranes, trolleys, and such appliances for the easy handling of materials and machines. A portion of the building will be two stories high, arranged for suitable offices, drafting rooms, store-rooms, etc. The framework of the building is steel built in brick work entirely supported by the framework, and is arranged with a view to easily attaching shafting for the transmission of power. An electric traveling crane of 40 ft. span, with a capacity of 15 tons, will run the whole length of the main building.

NEW COMPANIES.—American Indies Co., 110 East Front St., Plainfield, N. J.; $18,000,000, commencing with $50,000; to generate and distribute electricity for purposes of light, heat, power, etc., in the West Indies; R. A. C. Smith, 100 Broadway, New York; Thomas F. Ryan, 32 Liberty St., New York; Anthony N. Brady, Albany, N. Y.; Thomas Dolan and Wm. L. Elkins, of Philadelphia, Pa.

South American Construction Co., Manaos, State of Amazonas, Brazil; $400,000, commencing with $400; to manufacture asphalt pavement, and to lay and sell the same; W. D. Walker, B. F. Brennig, A. L. White, P. L. Lieborman and Rufus W. Fowler, all of New York.

New Rochelle Telephone Co., New Rochelle, N. Y.; $500,000, commencing with $100; to deal in telephones, telephone devices, apparatus and supplies; by George W. Sutton, New Rochelle; A. R. Hopkins, Montclair, N. J.; John H. Scofield and David G. Whitney, Grand View, N. Y.; Horace A. Conner, Brooklyn, N. Y.

Standard Ball Co., New York; $150,000, commencing with $500; to buy, sell, lease or mortgage all mechanical apparatus and metal-turning machines; H. S. Weed, New Canaan, Conn.; Felix Jellenik, R. L. Shainnold, A. T. George and E. M. Johnson, of New York.

Marshall & Huschart Machinery Co., Chicago, Ill.; $50,000; Alfred Marshall, Frank M. Huschart, Benjamin F. March.

Wayne Engineering & Construction Co., Worthington, Ind.; $20,000; C. S. Knight, Thos. Duncan.

Trenton Fire Brick Co., New York Ave., Trenton, N. J.; $100,000, commencing with $15,000; to manufacture and sell vitrified and refractory clay products; Geo. R. Frost, Chas. A. Pope and Francis C. Lowthorpe, all of Trenton.

Rich Patch Iron & Ore Co.; $3,000,000, commencing with $50; to manufacture iron, steel and other metals; John F. Anderson, Walter Woolcott, Ernest E. Davies, Victor H. Conkle and Frederick Maurer, all of Philadelphia, Pa.

Avery Salt Co., Avery Island, La.; $400,000, commencing with $70; to manufacture evaporated salt, and appliances used in said business; Joseph Clark, Wm. L. Chrisman, H. E. Gerhard, Wm. C. Watt and M. G. Saunders, all of Philadelphia, Pa.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadelphia and Washington are usually in the New York post-office by midnight; all Brooklyn and New York city papers by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign copies, is in the mail soon after 6 o'clock Thursday morn- If your paper is not received promptly we advise that you make a complaint to your local post-office officials.

The Circulation of ENGINEERING NEWS among Prominent Contractors Probably EXCEEDS that of any other FIVE PAPERS

ADVERTISE YOUR WORK IN ENGINEERING NEWS

Su

PERSONA
Obitua
ENGINE
Comin
CONSTR
Conde
Railw
Street
Electr
Bridg
Build
Water
Irriga
Sewe
Garb
Stree
Manu
Gas
Misc
Cont

Mr.
Superi
plant
signed.

Mr.
Brookl
Hartfo
ford,

Mr.
tary
Y., w
Nashu

Mr.
of the
sition
Co., N

Mr.
appo
Impr
the N

Mr
Trac
of th
Geor

Mr
is a
He
Bos
an e
plac

M
ing
pid
Fra
the
the

M
Bu
an
No
Ka
wi
Ch

H
D
H
b
r
D